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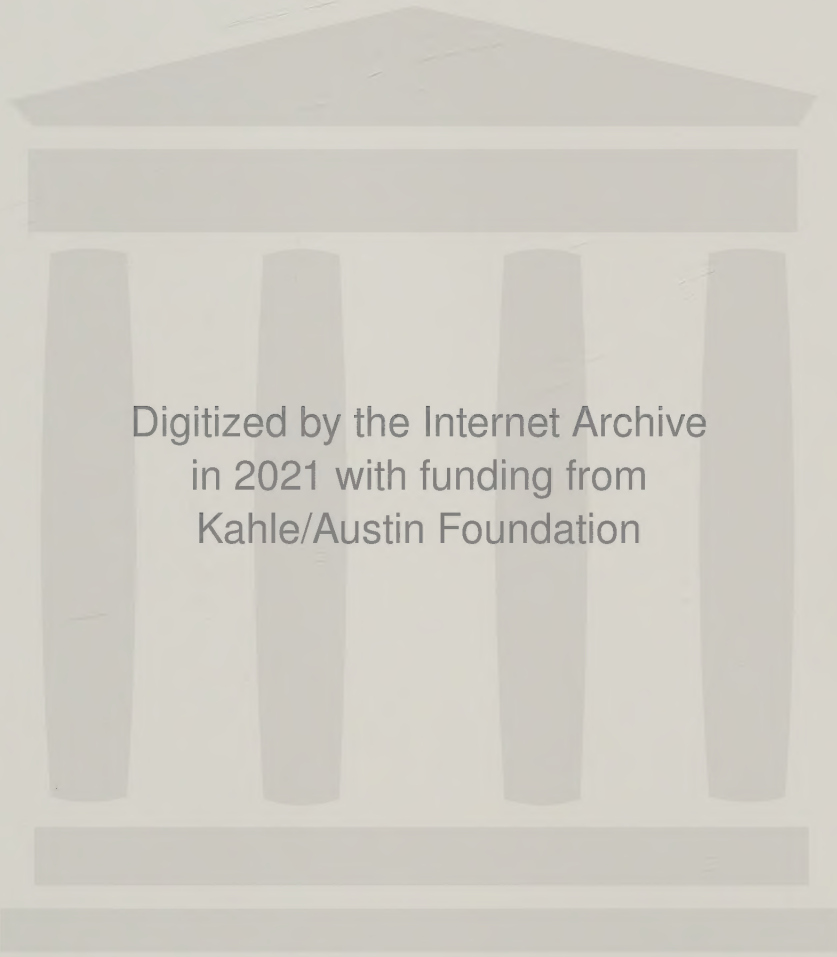
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A Bibliography of Ant Systematics

Philip S. Ward, Barry Bolton,
Steven O. Shattuck, William L. Brown, Jr.

University of California Press



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A BIBLIOGRAPHY OF ANT SYSTEMATICS

A Bibliography of Ant Systematics

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Preface

Begun ten years ago, this project was initially motivated by the need to bring together and provide consistent citations for the scattered descriptive literature in ant taxonomy, but the effort soon expanded to include published references on the phylogeny, evolution, geographical distribution, and morphology of ants, as well as comparative studies of ant biochemistry, behavior, and ecology. In the course of trawling for relevant literature, we accumulated a database of more than 16,000 references covering all aspects of ant biology.

The systematics bibliography presented here is a specialized subset of records that have been carefully reviewed for content and accuracy of citation. The process of checking (and often correcting) the citation details of each reference proved to be far more time-consuming than the mere accumulation of the records themselves. We have used the software program dBASE IV[®] to organize information on the literature, with the publications on ant systematics and related topics being held in a single file named ANTBIB. At the time of writing (April 1996) ANTBIB contained about 8,000 references.

Principal responsibility for the maintenance of this database and for the verification of the literature citations lies with the senior author. Shattuck (now at CSIRO, Division of Entomology, Canberra) was involved primarily in the early stages of this project and wrote most of the dBASE programs used to manage the database. Bolton (Department of Entomology, Natural History Museum, London) and Brown (Department of Entomology, Cornell University) each provided substantial input from their extensive files on ant literature. Bolton additionally checked the publication dates and citation details of many of the articles listed here. While we have striven to make the bibliography as complete as possible, errors and omissions doubtless remain. We would be grateful to receive comments, corrections, or additions to this bibliography. Such information should be sent to Philip S. Ward, Department of Entomology, University of California, Davis, CA 95616, U.S.A.

Our thanks are due to many people who assisted in this project. We are especially grateful to the library staff at the University of California at Davis, University of California at Berkeley, and the Natural History Museum, London. We are also indebted to Wojciech J. Pulawski (California Academy of Sciences) for an exceptionally thorough manuscript review, and to Rose Anne White (University of California Press) for expert editorial guidance. For additional assistance on matters bibliographical and linguistic we thank Gary Alpert, Joaquin Baixeras, Jacinto Barquín, Janne Bengtsson, Melissa Bennett, Carlos R. F. Brandão, Byeong-Moon Choi, Fabianna Cuezco, Chris Darling, Terezinha Della Lucia, Mark DuBois, Xavier Espadaler, Neal Evenhuis, Fernando Fernández, Brian Fisher, Michael Fisher, David Furth, Masaki Kondoh, Jehoshua Kugler, Bede Lowery, Susumu Maeda, Michael Ohl, Sanford Porter, Alexandr Radchenko, Alexandr Rasnitsyn, Zhanna Reznikova, E. Ocete Rubio, Roy Snelling, Karel Spitzer, Alberto Tinaut, Georges Tohmé, Petr Werner, and librarians at the California Academy of Sciences, Center for Research Libraries (Chicago), Clark University (Worcester, Massachusetts), Museum of Comparative Zoology (Harvard University), National Agricultural Library (Beltsville, Maryland), Stanford University, and the University of Southern California.

Introduction

SCOPE AND CONTENT OF THE BIBLIOGRAPHY

This bibliography is intended to be a comprehensive reference source for publications on the taxonomy, evolution, and comparative biology of ants (Hymenoptera: Formicidae). Concerned with ant systematics in the broad sense, it includes not only strictly taxonomic papers (containing descriptions of new taxa, revisions of classifications, and nomenclatural changes), but also those dealing with such related fields as morphology, identification, phylogeny, biogeography, and faunistics (including recent work falling under the rubric of “biodiversity studies”). The bibliography also contains references on ant ecology, social behavior, genetics, physiology, and biochemistry. The major criterion for inclusion of a non-taxonomic publication is that it involves comparisons among related species or higher taxa of ants, or otherwise has systematic or evolutionary implications. In addition we have included single-species studies on taxa of special phylogenetic significance. A final category is that of bibliographic references, i.e., those containing information about the publication details of one or more primary references in the database.

The bibliography covers the period 1758 to 1995. It contains 8,185 entries, of which 8,109 are literature records and the remainder cross-references. These records have been extracted from a computerized database, ANTBIB, maintained at the University of California (Davis) by P. S. Ward. Each literature entry in the bibliography contains information from four fields: **author**, **year** of publication, **title**, and **citation**. In most cases this is followed by the exact **date** of publication, in square brackets after the citation. Additional **comments**, usually concerning the contents of the article or citation details, are sometimes appended to the end of the reference. Thus each entry has up to six items of information associated with it. We have not made use of a keywords field, but efficient searches for words appearing in the author, title, citation, or comments fields can be carried out on an electronic version of the bibliography, in conjunction with software such as EndNote® (see below under “Electronic dissemination of the bibliography”).

FORMAT AND CONVENTIONS ADOPTED

Bibliographic entries are listed in conventional alphabetical order, by author and year. All text of the bibliography appears in a single format, i.e., italics, underline, and bold are not used, with the exception that genus and species names are italicized.

The entire bibliography is in the Roman alphabet, and publications using this script are cited in their original language. For papers and books in languages other than English the following combinations of diacritical marks and letters are recognized: á, à, â, ã, ä, å, Ä, Å, ç, Ç, é, è, ê, ë, É, Í, Ì, Î, Ï, Ñ, Ò, Ô, Ö, Õ, Ò, Ú, Ù, Û, Ü and Ÿ. All other diacritical marks have been ignored. For publications appearing in other scripts (mostly Cyrillic, Chinese or Japanese) the titles have been translated into English, with the original language noted after the title, while the serial names have been transliterated.

Papers or books published in parts are given multiple entries, corresponding to each separately published (and differently dated) part. Unpublished theses and reports are not included in the bibliography.

Author

For ease of use and simplicity of alphabetization, we have standardized the names of all senior authors. For those names with variant spellings (including variable initials and variable transliterations), we have somewhat arbitrarily chosen a single spelling, usually one that corresponds to the most common or familiar usage (Table 1).

All alternative spellings of senior author names are cross-listed in the bibliography. This includes word-order variations in names that do not otherwise vary in spelling (such as "Guillou, E. J. F. le" for "Le Guillou, E. J. F."), as well as the variations listed in Table 1.

The following convention is adopted for Nicolas Kusnezov: papers published before 1945 are assigned to "N. N. Kuznetsov-Ugamsky" because Kusnezov used this compound name (in one form or another) almost exclusively during this period, the only exceptions being a few papers published between 1923 and 1926. For publications appearing after 1945, we use the form adopted by the author after his emigration to Argentina, i.e., "N. Kusnezov."

Year

The year listed after the author's name (or authors' names) is our estimate of the year in which the work was published. Where the actual year of publication is different from the apparent year, the latter is placed in quotes and parentheses after the former, e.g. 1988 ("1987"). This is not an uncommon situation for articles appearing in serial publications. In this case the apparent year is the one which appears prominently on the title page of the relevant issue or volume, while the actual year of publication is established from other, usually more cryptic information, either in the same or subsequent issues of the serial (e.g., from the end-of-volume table of contents) or occasionally from outside sources of evidence (see further discussion under "Determination of publication dates"). Although at odds with Recommendation 22A of the International Code of Zoological Nomenclature (Ride *et al.*, 1985) which recommends that only the actual date of publication be cited, the format adopted here is a useful way of alerting readers to discrepancies between the two dates.

Multiple papers by the same author, or the same permutation of authors, within a year are given different, consecutive lower case suffixes after the year (e.g., 1986a, 1986b), concordant with their chronological sequence of appearance to the extent that this can be determined.

Title

Titles of each article or book are given in their original orthography if in the Roman alphabet; otherwise they have been translated into English, with the language of the original noted. In the latter case the "language of the original" is that in which most of the text

Table 1. Senior author names with variable renditions: standards adopted in this bibliography, and alternatives appearing in the literature.

Standard	Alternative(s)
Acosta Salmerón, F. J.	Acosta, F. J.
Arakelian, G. R.	Arakelyan, G. R.
Arnol'di, K. V.	Arnoldi, K. V.
Atanassov, N.	Atansov, N.; Atanassow, N.
Billen, J. P. J.	Billen, J.
Boven, J. K. A. van	Boven, J. van
Brandão, C. R. F.	Ferreira Brandão, C. R.
Collingwood, C. A.	Collingwood, C.
Comín, P.	Comín del Río, P.
Dalla Torre, K. W. von	Dalla Torre, C. G. de
De Haro, A.	De Haro Vera, A.
Deyrup, M.	Deyrup, M. A.
Dlussky, G. M.	Dlusskiy, G. M.
Donisthorpe, H.	Donisthorpe, H. S. J. K.
Escalante Gutiérrez, J. A.	Escalante G., J. A.
Espadaler, X.	Espadaler Gelabert, X.
Ezhikov, T.	Ezikov, J.
Fontenla Rizo, J. L.	Fontenla, J. L.
Franch, J.	Franch Batlle, J.
Frauenfeld, G. R. von	Frauenfeld, G.
Gerstäcker, A.	Gerstaecker, A.
Hermann, H. R.	Hermann, H. R., Jr.
Ipinza-Regla, J. H.	Ipinza, J.; Ipinza-Regla, J.
Karavaiev, V.	Karavajev, V.; Karawaiew, W.; Karawajew, W.
Krausse, A. H.	Krausse, A.
Kusnezov, N. (1948-1978)	Kusnezow, N.
Kuznetsov-Ugamsky, N. N. (1923-1930)	Kusnezov, N. N.; Kusnezov-Ugamsky, N.; Kusnezow, N. N.; Kusnezow-Ugamsky, N.; Kuznecov-Ugamskij, N. N.; Kuznetzov-Ugamskij, N. N.
Lattke, J. E.	Lattke, J.
MacKay, W. P.	MacKay, W.
Martínez, M. D.	Martínez Ibáñez, M. D.
Mayr, G.	Mayr, G. L.
Menzio, C.	Minozzi, C.
Motschoulsky, V. de	Motschulsky, V. de
Mukerjee, D.	Mukerji, D.; Mukherji, D.
Ortiz, F. J.	Ortiz y Sánchez, F. J.
Quiran, E. M.	Quiran, E.
Radchenko, A. G.	Radtchenko, A. G.; Radtschenko, A. G.
Ramos-Elorduy de Conconi, J.	Conconi, J. R. E. de
Reyes, J. L.	Reyes Lopez, J. L.
Rodríguez, A.	Rodríguez González, A.
Ruzsky, M.	Ruzsky, M. D.
Schembri, S. P.	Schembri, S.
Schkaff, B.	Škaff, B.
Schmidt, G. H.	Schmidt, G.
Tinaut, A.	Tinaut, J. A.; Tinaut Ranera, J. A.
Tiwari, R. N.	Tewary, R. N.
Tohmé, G., Tohmé, H.	Thome, G., Thome, H.
Wesselinoff, G. D.	Vesselinov, G.
Weyrauch, W.	Weyrauch, W. K.

appears; summaries may be given in other languages. All title words are uncapitalized except where grammatical use requires otherwise (e.g., German nouns, English proper nouns, etc.).

In cases where there is no formal title, we place pertinent information in square brackets. Book reviews, for example, are titled as “[Review of: ”, followed by a full citation of the reviewed work (i.e., author, year, title, place, publisher, number of pages). Untitled contributions appearing in published accounts of society meetings are cited as “[Untitled. Introduced by: ”, followed by the first one to several lines of relevant text. Isolated taxonomic descriptions by someone other than the principal author(s) of a work usually have no obvious title. In such cases we cite the name of the new taxon as it is written in the paper.

Citation

The citation contains all the remaining standard bibliographic information that follows after the title. This is usually one of three types: a serial citation, book citation, or nested citation. Since the content of the citation depends on the type, we discuss each of these separately.

For serial citations we give the serial name, volume number, and pages. The issue number within a volume is given only where it is needed for unambiguous identification of the pages (this typically occurs where pagination starts anew with each issue rather than with each volume). In this case the issue number is placed in parentheses after the volume number. For periodicals with multiple series, the number or name of the series is given in parentheses before the volume number. Where individual volumes of a serial are labeled by year rather than by a volume number (e.g., *Proceedings of the Zoological Society of London* for the years 1833 to 1936) we treat the year as the volume number. For serials where each issue is separately numbered and paginated and does not form part of a larger volume (e.g., *Breviora*), the issue number is cited as the volume number.

All serials are abbreviated in accordance with standards set by the ISSN International Centre (1994) and those used by BIOSIS[®] for its *Zoological Record Serial Sources*[™]. A complete list of all periodicals cited in this bibliography, in both their abbreviated and full titles, is given in the next chapter (“List of Serials”).

The following citation information is given for books: place of publication, publisher (in a few cases the printer, where the publisher is unclear), and the number of pages. This information is given not only in cases where the book itself is the primary reference, but also for articles cited within books.

Nested citations typically begin as “Pp. xx-xx in:” (or “P. xx in:”), followed by citation of the larger work of which they are a part. Examples include book chapters, single-author appendices within multiple-author papers, forewords, footnotes, etc. A frequent kind of nested citation in the bibliography is that of isolated species descriptions by someone other than the principal author(s) of a paper. These have been entered as separate bibliographic records. This practice applies even in cases where the author(s) to whom the descriptions should be attributed forms an overlapping set with the author(s) of the more inclusive work (see, e.g., the following in the bibliography: Wheeler and Mann, 1942a to 1942i; MacKay, 1988; Francoeur, 1985; Menozzi, 1930d, 1930e, 1930f). Such entries inflate the number of references somewhat, but permit more consistent record-keeping in the database.

Date of Publication

We have made a considerable effort to ascertain as accurately as possible the date of publication of each paper or book, particularly those containing nomenclaturally significant events (new taxa, new combinations, synonymy, etc.). The publication date appears in square brackets following the citation and is usually given to the nearest month or day. Where the publication could be dated only to year, the year alone is placed between brackets. The absence of a date signifies that we did not research the publication date with sufficient exhaustiveness to make a statement. The procedures followed in establishing dates of publication are discussed below.

Date information is given in ANSI (yyyy.mm.dd) format. Hence 25 November 1965 would be rendered as [1965.11.25]. For those works dated only to month, the designation contains only six digits, e.g., [1965.11]. Here it is to be understood that the default date for nomenclatural purposes is the last day of the month, just as the default date for publications dated only to year is December 31 of that year (Article 21c, ICZN).

Comments

These are usually brief and are used primarily to give sources for dating or, in papers dealing with a greater variety of taxa, to indicate on which pages ants (Formicidae) are treated. Cross-references to related papers or to translations are also given.

DETERMINATION OF PUBLICATION DATES

General Procedures

The primary source of information for establishing the publication date is the date specified in the work itself, although for papers appearing in serials the relevant information may be found in later issues of the same volume. In all cases we have searched first for explicit evidence about the publication date in the original work. Statements such as "mailing date 31 July 1967," "paru le 6 avril 1952," or "ausgegeben 21 Oktober 1908" can often be found on the front or back covers of the journal issue in which a paper appears. (This highlights the importance of binding issue covers with the rest of the volume, a practice not always followed by libraries.) In many instances journal issues are simply dated to the nearest month, sometimes without any clear statement about publication date. We accept such dates, in the absence of any contradictory evidence. If a range of dates is given (e.g., "January-March, 1924") we use the latest date. For serial publications in which no dating information is provided in the pertinent issue (or for which there is some doubt as to its accuracy), we have examined subsequent issues of the same volume in which the work was published. Sometimes the publication date for a particular issue is given in the next issue of the journal (e.g., *Psyche*), or in the end-of-year table of contents.

For publications produced within the past fifty years in France and in some other French-speaking regions, the "dépôt légal" date, appearing in fine print at the back of most books and serials, provides a good estimate of the date of publication. Most commonly this

is given to the nearest trimester, in which case we take the end of the three-month period. Thus, "dépôt légal, 1^{er} trimestre 1974" becomes [1974.03], while "4^e trimestre 1974" would be dated as [1974.12].

From about 1930 onwards, works published in Russia, the former Soviet Union, and adjacent countries usually contain the imprimatur date. In the absence of any additional evidence concerning the publication date, we cite this "signed for printing" ("podpisano k pechati", in transliterated Russian) date, while recognizing that the completion of printing and release of the publication may have occurred several days to several months later. To indicate this the "podpisano" dates in the ant systematics bibliography are prefaced with ">" and accompanied by a brief explanatory note. For some works published in Poland a distinction is made between the date on which the text was consigned for printing ("podpisano do druku") and the date on which printing was completed ("druk ukończono"), and in such a case we use the latter date as the publication date.

Some journals published in the nineteenth and early twentieth centuries labeled each issue according to the date of the meeting (séance, sessione, Sitzung) whose activities are recounted therein. Such dates cannot be accepted as publication dates, even if the papers appearing in the issue were read at the meeting. Unless there is a clear indication that printed separates were made available—and in most cases we do not have such evidence—it becomes necessary to seek additional information regarding the date of publication of the issue. For some journals (e.g., *Bulletin de la Société Entomologique de France*) publication typically occurred about two weeks after the meeting; in other instances this did not happen until several months to a year later. Some specific situations that we have dealt with are discussed below under "Case-by-case discussion of serials."

If author's separates were distributed before the publication of an article in the journal (or other venue) for which it was intended, the date of distribution of the separates is the publication date of the work (Article 21h, ICZN). In the course of compiling the bibliography of ant systematics, we have encountered few instances of this—examples include papers by Emery (1900b, 1901k), Santschi (1920i), and Spinola (1851)—although there may be additional cases of which we are unaware.

External Evidence

If the original work (or, in the case of serial publications, subsequent issues of the same journal) either does not provide information on the date of publication or is suspected of being inaccurate, it becomes necessary to pursue additional evidence, external to the work itself. For some periodicals we have found it useful to consult multi-year indices since these sometimes provide precise publication dates which are not given in the original issues (or which are lacking in library copies in which the issue covers were discarded). In other cases publication dates of previous issues are announced at irregular intervals in the volumes of a journal.

For older books and monographs, as well as serial publications, less direct evidence may be sought. This includes information about the date that a particular work was received at a public institution, for example the receipt date at a library, or the date on which a book was reviewed in a weekly publication such as *Bibliographie française*. Other lines of investigation may involve the scrutiny of the minutes of society meetings or of letters from publishers. There is a large but scattered literature on the dating of natural history

publications, usefully summarized in Griffin, Sherborn, and Marshall (1936) and supplements (Griffin, 1943; Stearn and Townsend, 1953; Goodwin, 1957; Goodwin, Stearn and Townsend, 1962). Other reference sources that have proven helpful in the current study include Sherborn (1922, 1932), Stafleu and Cowan (1976, 1979, 1981, 1983, 1985), Evenhuis *et al.* (1989), and the bibliography in Evenhuis (1994b). Where we have relied on one of these published secondary sources to date a work, we cite it in the comments field. Unpublished findings of our own are also made explicit.

Case-by-case Discussion of Serials

In this section we review dating and citation difficulties that have arisen with particular serials, and our decisions with respect to these.

Anales del Museo Nacional de Historia Natural de Buenos Aires.

Articles in the ant bibliography are from the years 1914 (volume 26) to 1934 (volume 38). Two somewhat contradictory sources of evidence on publication dates are available: the pagebase dates (which often vary slightly within an article) and the dates given for each article in the yearly index to the volume. We accept the latter as publication dates.

Annales de la Société Entomologique de Belgique.

So titled, the journal ran from 1857 to 1925 (volumes 1-64). Ant literature citations begin in volume 21 (1878). Starting with volume 41 (1897), publication dates are available from pagebase dates, except for volume 64 (see below). Prior to 1897, each issue is labeled only according to the monthly meeting that it covers. Publication appears to have occurred within several weeks of the meeting, based on séance and publication dates for volumes 41 to 45. Nevertheless, we have been unable to uncover exact publication dates so we date articles appearing before 1897 as after (“>”) the meeting date (e.g., > 1892.07.02).

The last volume (volume 64) consists of a single issue and lacks pagebase dates. The volume cover is dated “1924”, but on page 179 there is a footnote “ajoutée à l’impression, IV, 1925.” Hence we date all articles in this volume as April 1925.

Annales de la Société Entomologique de France.

Two useful indices (“Tables générales de 1861 à 1880 inclusivement,” appearing in 1885, and “Tables générales de 1881 à 1890 inclusivement,” appearing in 1895) give dates of publication for all issues (fascicles) for the period 1861 to 1890. For most issues appearing prior to 1861, we have used a set of dates based on an unpublished study by Neal Evenhuis (pers. comm.).

Dating of later (20th century) issues of this journal presents no problems insofar as exact publication dates are usually given on the originals. Note that volumes 114 (Année 1945), 115 (1946) and 116 (1947) were published as a single issue, dated “Décembre 1949.” The back cover has a dépôt légal date of “1^{er} trimestre 1950,” however, so that we date this as March 1950.

See also: *Bulletin Bimensuel de la Société Entomologique de France.*

Annali del Museo Civico di Storia Naturale (1870-1915), continued as *Annali del Museo Civico di Storia Naturale "Giacomo Doria"* (1916-present).

For articles appearing in volumes 9 (1877) and later, exact publication dates are available from the pagebases. We have used these except for volume 34, a special memorial issue in honor of Leonardo Fea, whose front and back covers are bordered in black and are both dated "1895." We have therefore dated the Emery article therein to year only (1895), despite its pagebase date of 7 September 1894. The foreword of this volume, by Doria and Gestro, is dated 20 April 1895.

Arquivos do Museu Nacional (Rio de Janeiro)

For Borgmeier's paper in volume 42 ("1951"), there are two contradictory statements about the publication date: one at the end of the article ("publicado em 30 de agosto de 1951") and the other in the volume index ("distribuído em 7 de abril de 1952"). We have accepted the latter date, while noting that Borgmeier (1971) and Kempf (1972b) date this paper as appearing even later, in 1953.

Bulletin of the Bernice Pauahi Bishop Museum.

Entomological articles in volumes 98, 113, and 114 (also titled "Pacific Entomological Survey Publication" numbers 1, 6, and 7, respectively) were issued individually, and later bound together in the whole volumes of the *Bulletin* (Evenhuis *et al.*, 1989:919-920). We accept the individual issue dates, which can be up to three years before the volume dates.

Bulletin Bimensuel de la Société Entomologique de France.

Between 1873 and 1894 there were two editions of the "Bulletin" of the Société Entomologique de France (MacGillavry, 1936; Evenhuis *et al.*, 1989). One of these, which may be titled the *Bulletin Bimensuel de la Société Entomologique de France*, was a biweekly publication. The other, containing the same articles but usually with different pagination, appeared quarterly as part of the *Annales de la Société Entomologique de France*. Since the *Bulletin Bimensuel* came out first, its dates are the relevant ones for nomenclatural purposes. These publication dates have been researched by Neal Evenhuis (Bishop Museum, Honolulu) who kindly sent us a copy of his unpublished notes.

Bulletin de la Société Entomologique de France.

We use this title to refer to the single, independant issuance of the "Bulletin" which began in 1895. It is the successor to the *Bulletin Bimensuel de la Société Entomologique de France*. Precise dates of publication are given in the "Bulletin" from 1902 onwards. For articles appearing between 1895 and 1902 only the séance date is available. We have dated these by extrapolation, based on the pattern (established by Neal Evenhuis when examining the *Bulletin Bimensuel*) that each meeting's bulletin was published at least four days prior to the next meeting.

Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord.

Precise dates of publication are given in volumes 1-43 (1910-1952), but not thereafter. Hence we have dated articles appearing after 1952 to year only, with one exception: the last issue of the 1954 volume (volume 45, no. 7-8), published in 1955, contains a paper by Bernard that obviously predates his other papers of that year including a paper in volume 46 of the same journal. A default date of 31 December 1955 puts this paper out of sequence, so

we have used the receipt date at the UC Berkeley library (29 March 1955) to establish an upper bound on the publication date of Bernard (1955a).

Comptes Rendus (Hebdomadaires) des Séances de l'Académie des Sciences (Paris) (1835-1965); continued, in part, by *Comptes Rendus (Hebdomadaires) des Séances de l'Académie des Sciences. Série D. Sciences Naturelles* (1966-1980).

Citations in the ant systematics bibliography from this weekly serial span the period 1844 (volume 19) to 1972 (volume 275). Each issue of the serial is labeled according to the weekly meeting (séance) whose activities are recorded therein. In early years there is documentation, in the "Bulletin bibliographique" part of the journal, that at each weekly meeting the Academy received the published *Comptes rendus* covering the previous week's meeting. In a testimonial to the publisher, M. J.-A. Gauthier-Villars, published in 1898 (volume 126, page 453), a statement is made implying that such prompt publication was always achieved, at least throughout the nineteenth century: "Depuis 1835, l'imprimerie qu'il dirigeait, après Bachelier et Mallet-Bachelier, n'a pas une seule fois manqué à faire paraître les *Comptes rendus* à l'heure voulue, malgré les difficultés de toute nature ...". Hence we assign a publication date of one week after the séance date for articles appearing in the *Comptes rendus*.

Genera Insectorum

A recent study by Evenhuis (1994a) demonstrates that the title page dates and the "colophon" dates (sign-off dates of the authors) of the fascicles of *Genera Insectorum* cannot be relied upon. We have adopted the dates of publication established by Evenhuis, which are based primarily on receipt dates at various institutions.

Journal and Proceedings of the Linnean Society of London. Zoology (1855-1865) and *Journal of the Linnean Society of London. Zoology* (1867-1968).

Publication dates of articles appearing prior to 1891 are taken from Kappel (1896).

Journal (and Proceedings) of the Royal Society of Western Australia

Watson (1945) provides publication dates for volumes 1 (1916) to 28 (1944) of this serial. He omits to mention, however, that, beginning with volume 10, individual articles were released as separates ("pamphlets") prior to the whole volume, a fact noted in the annual report for the year 1924 (*J. Proc. R. Soc. West. Aust.* 10:xx). The publication date of each separate is given on the first page of the article. We have used these dates rather than those given in Watson (1945). On the other hand, to date J. Clark's (1924a) paper appearing in volume 9 of this journal, it is necessary to refer to Watson (1945).

La Naturaleza.

For publication dates to the nearest year (for all volumes of this serial) see H. M. Smith (1942).

Memorie della Reale Accademia delle Scienze dell'Istituto di Bologna.

We have been unable to date Emery's articles appearing in this serial between 1891 and 1901 (volumes 1 to 9 of the fifth series) beyond the year. There is a meeting (Sessione) date associated with each paper, which we mention in the comments after each citation, but these meeting dates cannot be taken as publication dates. A similar situation applies to

articles in the *Rendiconti delle Sessioni della Reale Accademia delle Scienze dell'Istituto di Bologna* (see below). It should be noted that Emery's papers in the *Memorie* were also issued as separates, with pagination different from that in the volume, suggesting a publication date preceding that of the whole volume.

Proceedings of the Academy of Natural Sciences of Philadelphia.

Precise dates of publication for each issue are to be found on the reverse of the title page of each volume, from 1871 (volume 23) onwards. Information on the publication dates of earlier issues is fragmentary (Nolan, 1913). For articles appearing before 1871, we have used the pagebase dates except where more accurate dating information is provided in Nolan (1913).

Proceedings of the California Academy of Sciences.

Articles by Pergande in volumes (2)4 and (2)5 are accompanied by pagebase dates, but a review of the evidence suggests that these cannot be relied upon as dates of publication. For example, Pergande's first article ("On a collection of Formicidae from Lower California and Sonora, Mexico" in the *Proceedings*, volume (2)4, pages 26-36) has a pagebase date of 19 September 1893 but in the annual report for 1893, presented at a meeting of the Academy on 2 January 1894 (see *Proceedings*, volume (2)4, page 629), this paper is said to be "in press". Even allowing for preparation of the annual report several weeks before the January meeting, publication of this paper is unlikely to have occurred in September 1893. Moreover, beginning with the third series of the *Proceedings* (which started in 1897), both pagebase dates and explicit publication dates are given for each article, and their lack of equivalency is transparent. Thus, for the twelve articles in the Zoology part of volume (3)1 the discrepancy between the actual publication date and the latest pagebase date—some articles have more than one pagebase date—ranges from 0 to 18 days (mean 6.1 days), with the pagebase dates always preceding the publication dates. If Pergande's articles were issued no less promptly one could conclude that publication occurred within about one or two weeks of the pagebase dates but obviously this is not certain, and it appears not to have been the case for his first paper. An upper bound on the publication date of each Pergande paper is provided by the date of issuance of the whole volume. For further discussion see under Pergande in the bibliography. Exact publication dates are available for later papers in the *Proceedings* by Wheeler (1919d, 1919e, 1933a, 1934a), and by this time the pagebase dates and publication dates coincide.

Proceedings of the Entomological Society of British Columbia.

Leech (1942) provides publication dates for earlier issues of this journal.

Proceedings of the Entomological Society of Philadelphia.

Information on the publication dates of volumes 1-6 (1861-1867) is given by F. M. Brown (1964).

Proceedings of the Zoological Society of London.

We have followed Waterhouse (1937) and Duncan (1937) for the publication dates of articles appearing in this journal between 1830 and 1926.

Psyche (Cambridge).

This journal contains numerous articles of relevance to ant systematics, from volumes 8 (1899) to 101 (1994-1995). Starting with volume 53 (1946), precise publication dates ("mailing dates") are available for each issue by consulting the inside front cover of the subsequent issue. For papers appearing in volumes 9-52 we have only the apparent month date (e.g., "December 1916" or "June-August 1927") from the front cover of each issue. There is considerable evidence to indicate that these monthly dates are unreliable, but for consistency with usage in Bolton's (1995b) recent world catalog of ants these dates have been cited here. In addition, however, we indicate in the comments field the "stamp date" in the library of the Museum of Comparative Zoology, Harvard University. According to Frank Carpenter (pers. comm. via David Furth), these MCZ stamp dates correspond closely to the mailing dates of the issues. Such receipt dates are present on the MCZ issues as far back as volume 10 (1903). There are irregularities, however, including cases where the stamp date is invariant for two or three consecutive issues, and stamp dates that *postdate* those of the Cornell University (Ithaca, New York) library. Thus the MCZ stamp dates are at best useful guidelines, providing a latest possible publication date.

Rendiconti delle Sessioni della Reale Accademia delle Scienze dell'Istituto di Bologna (continued, in part, as *Rendiconti delle Sessioni della Reale Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche*).

The Rendiconti were released as several issues (fascicolo) per volume. These are labeled according to the months whose meetings they cover, e.g. "Fascicolo 3°, Marzo-Aprile 1897" for the meetings held between 14 March 1897 and 25 April 1897. There is also a year of publication stamped at the bottom of the title page of each fascicolo. This latter date usually agrees with the two-month fascicolo date except for those of "Novembre-Dicembre", for which the title page bears the following year. Thus it is clear that there was some delay in the publication of each fascicolo, but just how much delay is unknown. Taking a conservative course, we have dated articles appearing in this serial (all by Emery) to year only, using the year date stamped on the title page of each issue. In the comments field we indicate the meeting (Sessione) date on which the paper was presented.

Russkoe Entomologicheskoe Obozrenie.

Articles by Karavaiev and Ruzsky in volumes 9-16 (1910-1916) have two sets of dates. The first corresponds to that of the Julian (old Russian) calendar, while the second date, which is placed in parentheses, is that of the Gregorian calendar. We cite the latter dates as the publication dates. See also below under *Trudy Russkago Entomologicheskago Obshchestva*.

Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften in Wien. Mathematisch-Naturwissenschaftliche Classe [Klasse]. Abteilung I.

The serial was published with this title from 1861 to 1917. Ant systematics papers occur between 1866 (volume 53) and 1907 (volume 116). For most volumes from 1873 (volume 67) onwards we encountered explicitly dated issue covers (dated to month) in the library copies examined by us. For earlier articles we inferred the month of publication from the issue number (Heft 1 = January, Heft 2 = February, etc.) on the basis of statements appearing in the indices (Registers) for volumes 43-50 and 51-60 (Anonymous, 1865, 1870) to the effect that each volume comprises ten issues, one appearing each month except August and September.

This serial was continued as *Sitzungsberichte der Akademie der Wissenschaften in Wien. Mathematisch-Naturwissenschaftliche Klasse. Abteilung I* (1918-1946) and later *Sitzungsberichte der Österreichischen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Abteilung I* (1947-), but the issues of these journals in which we have found relevant ant articles are undated beyond the year and we have been unable to uncover evidence on their actual dates of publication. Hence the articles appearing therein, by Finzi and Bachmayer, are dated to year only.

Transactions of the Entomological Society of London.

Starting with volume 1896, exact dates are given for each part of a volume. For earlier issues, including those of the *Journal and Proceedings of the Entomological Society of London*, we have relied upon the dates meticulously researched by G. Wheeler (1912).

Transactions of the Entomological Society of New South Wales.

The years of publication of the first issues (various parts of volumes 1 and 2) are given by Andrewes (1930).

Transactions of the Linnean Society of London.

We consulted Raphael (1970) for publication dates of articles appearing in the first series (1791 to 1875).

Trudy Russkago Entomologicheskago Obshchestva.

For pre-revolutionary issues of this and other Russian publications that have a single exact publication date, we assume that such dates are those of the Julian calendar. We have converted these to Gregorian calendar dates by adding 12 days (19th century) or 13 days (20th century up to 31 January 1918). Publications dated only to the nearest month (e.g., early volumes of *Russkoe Entomologicheskoe Obozrenie*) have not been modified, although technically some of these could have been published in the following month, by Gregorian calendar reckoning.

Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien.

We have been unable to find dated issue covers for volumes prior to 1880, hence articles therein are dated to year only. More precise dates of publication are available later, beginning in the ant bibliography with Mayr's (1886c, 1886d) papers.

INFORMATION SOURCES

The sources of information used to compile this bibliography are many and varied. One of the most important has been the *Zoological Record*, for the years 1864 to 1994/1995. This is an extraordinarily useful reference, documenting a wealth of information on systematics and general biology. Nevertheless, mistakes and omissions do occur occasionally, making verification of literature citations necessary. Complementing the *Zoological Record* are the two series of the *Index litteraturae entomologicae* (Horn and Schenkling, 1928-1929; Derksen and Scheidung, 1963-1972; Gaedike, 1975) and Hagen's (1862, 1863) *Bibliotheca entomologica*. These works proved helpful for researching the eighteenth and nineteenth century literature.

Published bibliographies of Borgmeier (Borgmeier, 1971), Creighton (Gregg, 1974), Emery (Ghigi, 1925), Finzi (Menozzi, 1941), Forel (Kutter, 1931), Gallardo (Bruch, 1934), Karavaiev (Paramonov, 1941), Kempf (Lopes, 1978), Kusnezov (Gavrilov, 1964), Mann (Wilson, 1960b), Mayr (Kohl, 1909), Menozzi (Grandi, 1943), Pisarski (Czechowski, 1994), M. R. Smith (D. R. Smith, 1973), Soudek (Kratochvíl, 1936a), Wasmann (Schmitz, 1932), W. M. Wheeler (Evans and Evans, 1970), and other myrmecologists were additional productive starting points. We also gleaned the literature references in general works on myrmecology such as Forel (1874, 1920b), Gösswald (1985, 1989, 1990), Hölldobler and Wilson (1990), Wheeler (1910), and Wilson (1971), and in citation-rich systematic treatments and faunistic catalogs (e.g., Baroni Urbani, 1971c; Bernard, 1967a; Borgmeier, 1955; Brandão, 1991; Dlussky, 1967a; Kempf, 1972b; Kupyanskaya, 1990; Pisarski, 1975; Stitz, 1939; Terayama, Choi and Kim, 1992). Specialized bibliographies devoted to particular aspects of myrmecology were also examined: Buckley, 1982c; Cherrett and Cherrett, 1989; Cotti, 1963; Loureiro and Soares, 1990; Okano, 1989; and Onoyama and Terayama, 1994.

We have included in this bibliography all of the 3,670-odd taxonomic references from Bolton's (1995b) recent world catalog of ants. We have also been able to incorporate additional taxonomic papers and new data on publication dates that were acquired too late for inclusion in that catalog. Where there is a discrepancy between the publication date in Bolton (1995b) and that given for the same paper here, the latter date may be considered more definitive.

Among unpublished sources, the index card files on ant literature assembled by Bolton and Brown over a period of many years were a rich mine of bibliographic information. Many of the initial entries of records into the ANTBIB database came from these card files. They were also useful for checking against references acquired independently by Ward or Shattuck (cross-comparisons revealing errors) and in suggesting leads for resolving problematic citations.

For retrieving recent literature we browsed current journals, requested reprints from colleagues, and used computer-based information systems (BIOSIS[®], Current Contents[®], MELVYL[®], etc.) available through the University of California library system. There is, in fact, an enormous discrepancy between the ease of online retrieval of current literature and the difficulties posed by access to the older literature. It is arguably in the latter area where this bibliography makes its greatest contribution, since it appears unlikely that the main body of older taxonomic literature will be accessible in computerized form in the near future.

We should again emphasize that none of the literature references obtained from second-hand sources was accepted without further scrutiny. We made an attempt to verify each citation by examination of the original work. This procedure, the most time-consuming part of the project, frequently led to emendations or corrections of the citation, as well as to discoveries of additional relevant literature. In those few cases where we were unable to locate a publication, we indicate this and give the source of the citation.

ELECTRONIC DISSEMINATION OF THE BIBLIOGRAPHY

A copy of the database file (ANTBIB) that forms the basis of this bibliography can be obtained from the senior author (Philip S. Ward, Department of Entomology, University of

California, Davis, CA 95616, U.S.A.; e-mail: psward@ucdavis.edu). Efficient literature searches can then be carried out with the use of an appropriate bibliographic or database software program. The ANTBIB file is available in either dBASE® or EndNote® format, but responsibility for obtaining a copy of the relevant software lies with the user. The ANTBIB file also does not include the contents of chapters 1 and 2 of this bibliography, for which the present *University of California Publications in Entomology* volume should be consulted.

Other computerized databases on the Formicidae include FORMIS, a general bibliography of ant literature (available from S. D. Porter, USDA, ARS-MAVERL, P. O. Box 14565, Gainesville, FL 32604, U.S.A.), and ATTINE, a specialized database of leaf-cutting ant literature (Fowler *et al.*, 1995). We anticipate that the ANTBIB records will be incorporated into FORMIS in the future.

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List of Serials

INTRODUCTION

The list below gives the abbreviations and full titles of all 1,349 serial publications cited in the bibliography. The great majority of these serials are documented in one or both of the following serial sources, which should be consulted for more information: *Serial publications in the British Museum (Natural History)* (British Museum [Natural History], 1980) and *Zoological Record Serial Sources*[™] (BIOSIS, 1992, 1994a). Most of the remaining serials can be found in at least one of the following reference works: *World List of scientific periodicals* (Brown and Stratton, 1963-1965); *Union List of serials in libraries of the United States and Canada* (Titus, 1965); the periodical list in part 1 of *Quarto catálogo dos insetos que vivem nas plantas do Brasil* (Silva *et al.*, 1967); the periodical list in volume 5 of *Index litteraturae entomologicae, Serie II* (Gaedike, 1975); *International Union List of agricultural serials* (CAB, 1990); *Chemical Abstracts Service Source Index*[®] (CAS, 1990); *Serial Sources for the BIOSIS Previews*[®] Database (BIOSIS, 1994b); and *Directory of Japanese scientific periodicals* (Anonymous, 1993). Another very useful source of information about many of these serials is MELVYL[®], the University of California's online library catalog.

A serial is listed more than once if changes occur in the title, with the exception of very slight variations (e.g., *Tr. Ukr. [or Vseukr.] Akad. Nauk Fiz.-Mat. Vidd.*). Serials are cited in their original language, and are transliterated if in a script other than the Roman alphabet. For periodicals with multiple titles, in more than one language, we generally cite the title which is predominant on the journal cover.

We use a uniform set of abbreviations for all serials, conforming closely to the standards adopted by the ISSN International Centre (1994) and by BIOSIS for its *Zoological Record Serial Sources* (BIOSIS, 1992, 1994a). Where there is conflicting use of abbreviations by these two sources, we have, in general, followed BIOSIS usage, except that, unlike BIOSIS (but in conformity with ISSN), we include diacritical marks in the serial abbreviations. Serials with identical names are distinguished by adding the place of publication in parentheses following the title, e.g., *Natura* (Amst.) and *Natura* (Milan). In such instances, regardless of the language of the periodical, we cite the English word for the place of publication since it is not part of the title proper. This also corresponds to the convention adopted by BIOSIS.

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SERIAL ABBREVIATIONS

- | | |
|--|---|
| <i>Abh. Ber. K. Zool. Anthropol.-Ethnogr. Mus. Dres.</i> | <i>Abh. Naturwiss. Ver. Würzburg.</i> |
| Abhandlungen und Berichte des | Abhandlungen des |
| Königlichen Zoologischen und | Naturwissenschaftlichen Vereins |
| Anthropologische-Ethnographischen | Würzburg |
| Museums zu Dresden | <i>Abh. Senckenb. Naturforsch. Ges.</i> |
| <i>Abh. Ber. Naturkundemus. Görlitz</i> | Abhandlungen der Senckenbergischen |
| Abhandlungen und Berichte des | Naturforschenden Gesellschaft |
| Naturkundemuseums Görlitz | <i>Abiks Loodusevaatl.</i> |
| <i>Abh. Ber. Staatl. Mus. Tierkd. Dres.</i> | Abiks Loodusevaatlejale |
| Abhandlungen und Berichte aus dem | <i>Abstr. Dr. Diss. Ohio State Univ.</i> |
| Staatlichen Museum für Tierkunde in | Abstracts of Doctors' Dissertations. Ohio |
| Dresden | State University |
| <i>Abh. Geol. Spezialkt. Elsass-Lothringen</i> | <i>Acta Amazonica</i> |
| Abhandlungen zur Geologischen | Acta Amazonica |
| Spezialkarte von Elsass-Lothringen | <i>Acta Arct.</i> |
| <i>Abh. Naturwiss. Ver. Bremen</i> | Acta Arctica |
| Abhandlungen herausgegeben vom | <i>Acta Biol. Exp. (Warsaw)</i> |
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Royal Botanic Gardens, Kew. Additional
Series
- Bull. Mizunami Fossil Mus.*
Bulletin of the Mizunami Fossil Museum
- Bull. Mus. Comp. Zool.*
Bulletin of the Museum of Comparative
Zoology
- Bull. Mus. Hist. Nat.*
Bulletin du Muséum d'Histoire Naturelle
- Bull. Mus. Natl. Hist. Nat.*
Bulletin du Muséum National d'Histoire
Naturelle
- Bull. Mus. Natl. Hist. Nat. Écol. Gén.*
Bulletin du Muséum National d'Histoire
Naturelle. Écologie Générale
- Bull. Mus. Natl. Hist. Nat. Sect. A. Zool. Biol.
Écol. Anim.*
Bulletin du Muséum National d'Histoire
Naturelle. Section A. Zoologie, Biologie et
Écologie Animales
- Bull. Mus. R. Hist. Nat. Belg.*
Bulletin du Musée Royal d'Histoire
Naturelle de Belgique
- Bull. Nat. Hist. Res. Cent. Univ. Baghdad*
Bulletin of the Natural History Research
Centre. University of Baghdad
- Bull. Rech. Agron. Gembloux*
Bulletin des Recherches Agronomiques de
Gembloux
- Bull. Romand Entomol.*
Bulletin Romand d'Entomologie
- Bull. SROP*
Bulletin SROP [Section Regional Ouest
Paléarctique, Organisation Internationale
de Lutte Biologique]
- Bull. Sci. Bourgogne*
Bulletin Scientifique de Bourgogne
- Bull. Sci. Soc. Philomath. Paris*
Bulletin des Sciences par la Société
Philomathique de Paris
- Bull. Soc. Amis Sci. Lett. Poznan Sér. D. Sci.
Biol.*
Bulletin de la Société des Amis des
Sciences et des Lettres de Poznan. Série D.
Sciences Biologiques
- Bull. Soc. Bot. Genève*
Bulletin de la Société Botanique de
Genève
- Bull. Soc. Entomol. Belg.*
Bulletin de la Société Entomologique de
Belgique
- Bull. Soc. Entomol. Egypte*
Bulletin. Société Entomologique d'Égypte.
- Bull. Soc. Entomol. Fr.*
Bulletin de la Société Entomologique de
France
- Bull. Soc. Entomol. Ital.*
Bullettino della Società Entomologica
Italiana
- Bull. Soc. Entomol. Ital. Resoc. Adun.*
Bullettino della Società Entomologica
Italiana. Resocónti di Adunanze
- Bull. Soc. Entomol. Mulhouse*
Bulletin de la Société Entomologique de
Mulhouse
- Bull. Soc. Entomol. Taiwan Prov. Chung-
Hsing Univ.*
Bulletin of the Society of Entomology.
Taiwan Provincial Chung-Hsing
University
- Bull. Soc. Étude Sci. Nat. Elbeuf*
Bulletin de la Société d'Étude des
Sciences Naturelles d'Elbeuf
- Bull. Soc. Fouad Ier Entomol.*
Bulletin de la Société Fouad Ier
d'Entomologie

- Bull. Soc. Hist. Nat. Afr. Nord*
Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord
- Bull. Soc. Hist. Nat. Dep. Moselle Metz*
Bulletin de la Société d'Histoire Naturelle du Département de la Moselle. Metz
- Bull. Soc. Hist. Nat. Toulouse*
Bulletin de la Société d'Histoire Naturelle de Toulouse
- Bull. Soc. Imp. Nat. Mosc.*
Bulletin de la Société Impériale des Naturalistes de Moscou
- Bull. Soc. Nat. Luxemb.*
Bulletin de la Société des Naturalistes Luxembourgeois
- Bull. Soc. Neuchâtel. Sci. Nat.*
Bulletin de la Société Neuchâteloise des Sciences Naturelles
- Bull. Soc. Philomath. Paris*
Bulletin de la Société Philomathique de Paris
- Bull. Soc. Sci. Nat. Maroc*
Bulletin de la Société des Sciences Naturelles du Maroc
- Bull. Soc. Sci. Nat. Phys. Maroc*
Bulletin de la Société des Sciences Naturelles et Physiques du Maroc
- Bull. Soc. Sci. Nat. Tunis.*
Bulletin de la Société des Sciences Naturelles de Tunisie
- Bull. Soc. Vaudoise Sci. Nat.*
Bulletin de la Société Vaudoise des Sciences Naturelles
- Bull. Soc. Zool. Fr.*
Bulletin de la Société Zoologique de France
- Bull. Soc. Zool. Fr. Evol. Zool.*
Bulletin de la Société Zoologique de France. Évolution et Zoologie
- Bull. South. Calif. Acad. Sci.*
Bulletin of the Southern California Academy of Sciences
- Bull. Tianjin Inst. Geol. Miner. Resour.*
Bulletin of the Tianjin Institute of Geology and Mineral Resources
- Bull. Toho Gakuen*
Bulletin of the Toho Gakuen
- Bull. Toyama Sci. Mus.*
Bulletin of the Toyama Science Museum
- Bull. U. S. Geol. Geogr. Surv. Territ.*
Bulletin of the United States Geological and Geographical Survey of the Territories
- Bull. U. S. Geol. Surv.*
Bulletin of the United States Geological Survey
- Bull. Univ. Asie Cent.*
Bulletin de l'Université de l'Asie Centrale
- Bull. Univ. Utah Biol. Ser.*
Bulletin of the University of Utah. Biological Series
- Bull. Wis. Nat. Hist. Soc.*
Bulletin of the Wisconsin Natural History Society
- Bull. Zool. Nomencl.*
Bulletin of Zoological Nomenclature
- Bull. Zool. Surv. India*
Bulletin of the Zoological Survey of India
- Butll. Inst. Catalana Hist. Nat.*
Butlletí de la Institució Catalana d'Historia Natural
- Byull. Vseross. Entomo-Fitopatol. S'ezda*
Byulleten' Vserossiiskogo Entomo-Fitopatologicheskogo S'ezda
- C. R. Séances Acad. Sci.*
Comptes Rendus (Hebdomadaires) des Séances de l'Académie des Sciences
- C. R. Séances Acad. Sci. Ser. D. Sci. Nat.*
Comptes Rendus (Hebdomadaires) des Séances de l'Académie des Sciences. Série D. Sciences Naturelles
- C. R. Séances Soc. Biogéogr.*
Compte Rendu des Séances de la Société de Biogéographie
- C. R. Somm. Séances Soc. Biogéogr.*
Compte Rendu Sommaire des Séances de la Société de Biogéographie
- CSIRO Div. Entomol. Rep.*
CSIRO (Commonwealth Scientific and Industrial Research Organization) Division of Entomology Report
- Café Cacao Thé*
Café Cacao Thé
- Cah. Nat. (Bull. Nat. Paris.)*
Cahiers des Naturalistes (Bulletin des Naturalistes Parisiens)
- Caldasia*
Caldasia
- Calif. Dep. Agric. Bur. Entomol. Occas. Pap.*
California Department of Agriculture. Bureau of Entomology. Occasional Papers

- Calif. Dep. Food Agric. Lab. Serv. Entomol.*
Occas. Pap.
California Department of Food and
Agriculture. Laboratory Services,
Entomology. Occasional Papers
- Can. Entomol.*
Canadian Entomologist
- Can. For. Branch Bimon. Res. Notes*
Canada Forestry Branch. Bimonthly
Research Notes
- Can. J. Genet. Cytol.*
Canadian Journal of Genetics and
Cytology
- Can. J. Zool.*
Canadian Journal of Zoology
- Caribb. J. Sci.*
Caribbean Journal of Science
- Carinthia II*
Carinthia II
- Carnegie Inst. Wash. Publ.*
Carnegie Institution of Washington
Publication
- Carolinea*
Carolinea
- Caryologia*
Caryologia
- Cas. Cesk. Spol. Entomol.*
Casopis Československé Společnosti
Entomologické
- Cas. České Spol. Entomol.*
Casopis České Společnosti Entomologické
- Cas. Morav. Mus. Brne*
Casopis Moravského Musea v Brně
- Cas. Morav. Zemské Mus. Brne*
Casopis Moravského Zemského Musea v
Brně
- Cas. Nár. Mus. (Prague)*
Casopis Národního Musea (Prague)
- Cas. Slezského Muz. Ser. A Vedy Prír.*
Casopis Slezského Muzea. Serie A. Vedy
Přírodní
- Cat. Faunae Austriae*
Catalogus Faunae Austriae
- Cell Tissue Res.*
Cell and Tissue Research
- Checklist Specie Fauna Ital.*
Checklist delle Specie della Fauna Italiana
- Chem. Soc. Rev.*
Chemical Society Reviews
- Chin. J. Entomol.*
Chinese Journal of Entomology
- Chongju Sabom Taehak Nonmunjip (J.*
Chongju Natl. Teach. Coll.)
Chongju Sabom Taehak Nonmunjip
(Journal of Chongju National Teachers'
College)
- Chongju Sabom Taehakkyo Nonmunjip (J.*
Chongju Natl. Univ. Educ.)
Chongju Sabom Taehakkyo Nonmunjip
(Journal of Chongju National University of
Education)
- Chromosoma (Berl.)*
Chromosoma (Berlin)
- Cienc. Biol. Acad. Cienc. Cuba*
Ciencias Biológicas. Academia de
Ciencias de Cuba
- Cienc. Invest.*
Ciencia e Investigación
- Ciênc. Cult. (São Paulo)*
Ciência e Cultura (São Paulo)
- Científica (Jaboticabal)*
Científica (Jaboticabal)
- Circ. Board Agric. Trinidad*
Circular. Board of Agriculture, Trinidad
- Clin. Exp. Allergy*
Clinical and Experimental Allergy
- Cocuyo (Havana)*
Cocuyo (Havana)
- Colecc. Estud. Altoaragon.*
Colección de Estudios Altoaragoneses
- Colecc. Monogr. (Secr. Publ. Univ. La*
Laguna)
Colección Monografías (Secretariado de
Publicaciones de la Universidad de La
Laguna)
- Colemania*
Colemania
- Coleopt. Bull.*
Coleopterists' Bulletin
- Collana Verde*
Collana Verde
- Collect. Nord.*
Collection Nordica
- Colloq. Int. Cent. Natl. Rech. Sci.*
Colloques Internationaux du Centre
National de la Recherche Scientifique
- Comment. Biol.*
Commentationes Biologicae
- Comp. Biochem. Physiol.*
Comparative Biochemistry and Physiology
- Comp. Biochem. Physiol. B. Comp. Biochem.*
Comparative Biochemistry and
Physiology. B. Comparative Biochemistry

- Comun. Acad. Repub. Pop. Rom.*
Comunicarile Academiei Republicii
Populare Române
- Comun. Mus. Nac. Hist. Nat. "Bernardino Rivadavia"*
Comunicaciones del Museo Nacional de
Historia Natural "Bernardino Rivadavia"
- Comun. Zool. Mus. Hist. Nat. Montev.*
Comunicaciones Zoológicas del Museo de
Historia Natural de Montevideo
- Condor*
Condor
- Conn. State Geol. Nat. Hist. Surv. Bull.*
Connecticut State Geological and Natural
History Survey. Bulletin
- Conserv. Biol.*
Conservation Biology
- Contr. Lab. Vertebr. Biol. Univ. Mich.*
Contributions from the Laboratory of
Vertebrate Biology of the University of
Michigan
- Contr. Sci. (Los Angel.)*
Contributions in Science (Los Angeles)
- Cour. Forschungsinst. Senckenb.*
Courier Forschungsinstitut Senckenberg
- Creat. Res. Soc. Q.*
Creation Research Society Quarterly
- Curr. Genet.*
Current Genetics
- Cytobios*
Cytobios
- Dan. Fauna*
Danmarks Fauna
- Denkschr. Akad. Wiss. Wien Math.-
Naturwiss. Kl.*
Denkschriften der Akademie der
Wissenschaften in Wien. Mathematisch-
Naturwissenschaftliche Klasse
- Denkschr. Med.-Naturwiss. Ges. Jena*
Denkschriften der Medizinisch-
Naturwissenschaftlichen Gesellschaft zu
Jena
- Diss. Abstr. B. Sci. Eng.*
Dissertation Abstracts. B. Sciences and
Engineering
- Diss. Abstr. Int. B. Sci. Eng.*
Dissertation Abstracts International. B.
Sciences and Engineering
- Divulg. Agron.*
Divulgação Agrônômica
- Dnev. Zool. Otd. Imp. Obshch. Lyubit.*
Estestvozn. Antropol. Etnogr.
Dnevnik' Zoologicheskago Otdeleniya
Imperatorskago Obshchestva Lyubitelei
Estestvoznaniya, Antropologii i Etnografii
- Dobutsugaku Zasshi (Zool. Mag.)*
Dobutsugaku Zasshi (Zoological
Magazine)
- Dokl. Akad. Nauk Arm.*
Doklady Akademii Nauk Armenii
- Dokl. Akad. Nauk SSSR*
Doklady Akademii Nauk SSSR
- Doriana*
Doriana
- Drosera*
Drosera
- Dtsch. Entomol. Natl.-Bibl.*
Deutsche Entomologische National-
Bibliothek
- Dtsch. Entomol. Z.*
Deutsche Entomologische Zeitschrift
- Dusenía*
Dusenía
- EOS. Rev. Esp. Entomol.*
EOS. Revista Española de Entomología
- East Afr. Wildl. J.*
East African Wildlife Journal
- Ecol. Appl.*
Ecological Applications
- Ecol. Entomol.*
Ecological Entomology
- Ecol. Mediterr.*
Ecologia Mediterranea
- Ecol. Monogr.*
Ecological Monographs
- Ecol. Rev.*
Ecological Review
- Ecología (Asoc. Argent. Ecol.)*
Ecología (Asociación Argentina de
Ecología)
- Ecología (Madr.)*
Ecología (Madrid)
- Ecology*
Ecology
- Ecotrópicos*
Ecotrópicos
- Edaphologia*
Edaphologia
- Ekol. Pol.*
Ekologia Polska
- Ekologiya (Mosc.)*
Ekologiya (Moscow)

- Entomo Shirogane*
 Entomo Shirogane
Entomofauna
 Entomofauna
Entomol. (Trends Agric. Sci.)
 Entomology (Trends in Agricultural Science)
Entomol. Abh. Staatl. Mus. Tierkd. Dres.
 Entomologische Abhandlungen.
 Staatliches Museum für Tierkunde
 Dresden
Entomol. Am.
 Entomologica Americana
Entomol. Annu.
 Entomologist's Annual
Entomol. Anz.
 Entomologischer Anzeiger
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 Entomologica Basiliensia
Entomol. Beih. Berl.-Dahl.
 Entomologische Beihefte aus Berlin-Dahlem
Entomol. Ber. (Amst.)
 Entomologische Berichten (Amsterdam)
Entomol. Ber. Luzern
 Entomologische Berichte Luzern
Entomol. Bl. Biol. Syst. Käfer
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Entomol. Exp. Appl.
 Entomologia Experimentalis et Applicata
Entomol. Fenn.
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 Entomologia Generalis
Entomol. Ger.
 Entomologica Germanica
Entomol. Hell.
 Entomologia Hellenica
Entomol. Issled. Kirg.
 Entomologicheskije Issledovaniya v Kirgizii
Entomol. Jahrb.
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Entomol. Listy
 Entomologické Listy
Entomol. Mag. Kyoto
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Entomol. Medd.
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Entomol. Mitt.
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Entomol. Nachr. Dres.
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Entomol. Nachrichtenbl. Troppau
 Entomologisches Nachrichtenblatt.
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Entomol. News
 Entomological News
Entomol. Obozr.
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Entomol. Rec. J. Var.
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Entomol. Res. Bull. (Seoul)
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 Entomologische Rundschau
Entomol. Scand.
 Entomologica Scandinavica
Entomol. Scand. Suppl.
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 Supplementum
Entomol. Tidskr.
 Entomologisk Tidskrift
Entomol. World Tokyo
 Entomological World. Tokyo
Entomol. Z.
 Entomologische Zeitschrift
Entomologen
 Entomologen
Entomologist
 Entomologist
Entomologiste (Paris)
 Entomologiste (Paris)
Entomon
 Entomon
Entomophaga
 Entomophaga
Entomops
 Entomops
Entomotaxonomia
 Entomotaxonomia

- Environ. Entomol.*
 Environmental Entomology
Ergeb. Hambg. Magalhaens. Sammelreise
 Ergebnisse der Hamburger
 Magalhaensischen Sammelreise
Ergeb. Wiss. Unters. Schweiz. Nationalpark
 Ergebnisse der Wissenschaftlichen
 Untersuchungen im Schweizerischen
 Nationalpark
Ergeb. Zweiten Dtsch. Zent.-Afr. Exped.
 Ergebnisse der Zweiten Deutschen
 Zentral-Afrika Expedition
Esakia
 Esakia
Esakia Spec. Issue
 Esakia Special Issue
Essex Nat. (Lond.)
 Essex Naturalist (London)
Estudi Gen. (Coll. Univ. Girona)
 Estudi General (Collegi Universitari de
 Girona)
Ethol. Ecol. Evol.
 Ethology Ecology and Evolution
Ethol. Ecol. Evol. Spec. Issue
 Ethology Ecology and Evolution Special
 Issue
Ethology
 Ethology
Eur. J. Entomol.
 European Journal of Entomology
Evolution
 Evolution
Experientia (Basel)
 Experientia (Basel)
Experientiae (Viçosa)
 Experientiae (Viçosa)
Ezheg. Zool. Muz.
 Ezhegodnik Zoologicheskago Muzeya
Fabrerias
 Fabrerias
Fasc. Malay. Zool.
 Fasciculi Malayenses. Zoology
Faun. Abh. (Dres.)
 Faunistische Abhandlungen (Dresden)
Fauna Bohemiae Septentr.
 Fauna Bohemiae Septentrionalis
Fauna Bûlg.
 Fauna na Bûlgariya
Fauna Entomol. Scand.
 Fauna Entomologica Scandinavica
Fauna Flora Rheinl.-Pfalz
 Fauna und Flora in Rheinland-Pfalz
Fauna Hawaii.
 Fauna Hawaiiensis
Fauna Norv. Ser. B
 Fauna Norvegica. Series B
Fauna Saudi Arab.
 Fauna of Saudi Arabia
Faune Entomol. Indoch. Fr.
 Faune Entomologique de l'Indochine
 Française
Faunus
 Faunus
Feuille Jeunes Nat.
 Feuille des Jeunes Naturalistes
Field Lab.
 Field and Laboratory
Fieldiana Zool.
 Fieldiana Zoology
Fitofilo
 Fitofilo
Fla. Dep. Agric. Consum. Serv. Div. Plant
 Ind. Entomol. Circ.
 Florida Department of Agriculture and
 Consumer Services. Division of Plant
 Industry. Entomology Circular
Fla. Entomol.
 Florida Entomologist
Flora Fauna
 Flora og Fauna
Folia Entomol. Hung.
 Folia Entomologica Hungarica
Folia Entomol. Mex.
 Folia Entomologica Mexicana
Folia Myrmecol. Termit.
 Folia Myrmecologica et Termitologica
Folia Univ. Cochabamba
 Folia Universitaria. Cochabamba
Folia Zool. Hydrobiol.
 Folia Zoologica et Hydrobiologica
For. Res.
 Forest Research
Fortschr. Zool.
 Fortschritte der Zoologie
Fragm. Entomol.
 Fragmenta Entomologica
Fragm. Faun. (Warsaw)
 Fragmenta Faunistica (Warsaw)
Funct. Ecol.
 Functional Ecology
G. Sci. Nat. Econ. Palermo
 Giornale di Scienze Naturali ed
 Economiche di Palermo

- Gen. Appl. Entomol.*
 General and Applied Entomology
Genera Insectorum
 Genera Insectorum
Genetica
 Genetica
Genetics
 Genetics
Genome
 Genome
Gensei
 Gensei
Geol. Jahrb. Hessen
 Geologisches Jahrbuch Hessen
Geol. Mag.
 Geological Magazine
Glas. Prir. Muz. Beogradu Ser. B Biol. Nauke
 Glasnik Prirodnjackog Muzeja u Beogradu. Serija B. Bioloske Nauke
God. Sofii. Univ. Biol. Fak. Kn. I Zool. Fiziol. Biohim. Zhivotn.
 Godishnik na Sofiiskiia Universitet. Biologicheski Fakultet. Kniga 1. Zoologiya, Fiziologiya i Biohimiya na Zhivotnite
God. Sofii. Univ. "Kliment Okhridski" Biol. Fak. Kn. I Zool.
 Godishnik na Sofiiskiia Universitet "Kliment Okhridski". Biologicheski Fakultet. Kniga 1. Zoologiya
Gorskostop. Nauka
 Gorskostopanska Nauka
Göteb. K. Vetensk. Vitterh. Samh. Handl.
 Göteborgs Kungliga Vetenskaps och Vitterhets Samhälles Handlingar
Grad. Stud. Tex. Tech Univ.
 Graduate Studies. Texas Tech University
Graellsia
 Graellsia
Great Basin Nat.
 Great Basin Naturalist
Great Lakes Entomol.
 Great Lakes Entomologist
Hakone Hakubutsu
 Hakone Hakubutsu
Hakubutsu Tomo
 Hakubutsu no Tomo
Handb. Exp. Pharmakol.
 Handbuch der Experimentellen Pharmakologie
Handb. Identif. Br. Insects
 Handbooks for the Identification of British Insects
Heilige Land
 Das Heilige Land
Helv. Chim. Acta
 Helvetica Chimica Acta
Hereditas (Lund)
 Hereditas (Lund)
Heredity
 Heredity
Hexapoda (Insecta Indica)
 Hexapoda (Insecta Indica)
Hilgardia
 Hilgardia
Himmel Erde
 Himmel und Erde
Holarct. Ecol.
 Holarctic Ecology
Humboldt
 Humboldt
Hyogo Biol.
 Hyogo Biology
Idea
 Idea
Idia
 Idia
Igaku Seibutsugaku
 Igaku to Seibutsugaku
Iheringia Sér. Zool.
 Iheringia. Série Zoologia
Ill. Nat. Hist. Surv. Biol. Notes
 Illinois Natural History Survey. Biological Notes
Indian For. Rec. Entomol. Ser.
 Indian Forest Records. Entomology Series
Indian J. Entomol.
 Indian Journal of Entomology
Inf. Cient. (Univ. Nac. Asunción)
 Informes Científicos (Universidad Nacional de Asunción)
Insect Biochem.
 Insect Biochemistry
Insect Cond. La.
 Insect Conditions in Louisiana
Insect World
 The Insect World
Insecta Helv. Fauna
 Insecta Helvetica. Fauna
Insecta Matsumurana
 Insecta Matsumurana

- Insecta Mundi*
 Insecta Mundi
Insecta Norv.
 Insecta Norvegiae
Insectarium
 Insectarium
Insectes
 Insectes
Insectes Soc.
 Insectes Sociaux
Insects Samoa
 Insects of Samoa
Int. Entomol. Z.
 Internationale Entomologische Zeitschrift
Int. J. Insect Morphol. Embryol.
 International Journal of Insect Morphology
 and Embryology
Int. J. Microsc. Nat. Sci.
 International Journal of Microscopy and
 Natural Science
Int. Sci. Rev.
 Internacia Scienca Revuo
Intelligenzbl. Litt.-Ztg. Erlangen
 Intelligenzblatt der Litteratur-Zeitung
 Erlangen
Invertebr. Taxon.
 Invertebrate Taxonomy
Iowa State Coll. J. Sci.
 Iowa State College Journal of Science
Ir. Nat.
 Irish Naturalist
Ir. Nat. J.
 Irish Naturalist's Journal
Isis Oken
 Isis von Oken
Isozyme Bull.
 Isozyme Bulletin
Isr. J. Entomol.
 Israel Journal of Entomology
Isr. J. Zool.
 Israel Journal of Zoology
Istanbul Univ. Fen Fak. Mecm. Seri B
 Istanbul Universitesi Fen Fakultesi
 Mecmuasi. Seri B
Izv. Akad. Nauk Kaz. SSR Ser. Biol.
 Izvestiya Akademii Nauk Kazakhskoi
 SSR. Seriya Biologicheskaya
Izv. Akad. Nauk Turkm. SSR Ser. Biol. Nauk
 Izvestiya Akademii Nauk Turkmenkoi
 SSR. Seriya Biologicheskikh Nauk
Izv. Biol. Nauchno-Issled. Inst. Permsk. Gos.
 Univ.
 Izvestiya Biologicheskogo Nauchno-
 Issledovatel'skogo Instituta pri Permskom
 Gosudarstvennom Universitete
Izv. Bulg. Entomol. Druzh.
 Izvestiya na Bulgarskoto Entomologichno
 Druzhestvo
Izv. Imp. Obshch. Lyubit. Estestvozn.
 Antropol. Etnogr. Imp. Mosk. Univ.
 Izvestiya Imperatorskago Obshchestva
 Lyubitelei Estestvoznaniya Antropologii i
 Etnografii pri Imperatorskom
 Moskovskom Universitete
Izv. Imp. Rus. Geogr. Obshch.
 Izvestiya Imperatorskago Russkago
 Geograficheskago Obshchestva
Izv. Imp. Tomsk. Univ.
 Izvestiya Imperatorskago Tomskago
 Universiteta
Izv. Imp. Varsh. Univ.
 Izvestiya Imperatorskago Varshavskago
 Universiteta
Izv. Inst. Issled. Sib.
 Izvestiya Instituta Issledovaniya Sibiri
Izv. Tomsk. Gos. Univ.
 Izvestiya Tomskogo Gosudarstvennogo
 Universiteta
Izv. Turkest. Otd. Imp. Rus. Geogr. Obshch.
 Izvestiya Turkestanskago Otdela
 Imperatorskago Russkago
 Geograficheskago Obshchestva
Izv. Zool. Inst. Muz. Bulg. Akad. Nauk.
 Izvestiya na Zoologicheskaya Institut s
 Muzej. Bulgarska Akademiya na Naukite
J. Adv. Zool.
 Journal of Advanced Zoology
J. Afr. Zool.
 Journal of African Zoology
J. Agric. Univ. P. R.
 Journal of Agriculture of the University of
 Puerto Rico
J. Allergy Clin. Immunol.
 Journal of Allergy and Clinical
 Immunology
J. Anim. Behav.
 Journal of Animal Behavior
J. Anim. Ecol.
 Journal of Animal Ecology
J. Anim. Morphol. Physiol.
 Journal of Animal Morphology and
 Physiology

- J. Appl. Ecol.*
Journal of Applied Ecology
- J. Appl. Entomol.*
Journal of Applied Entomology
- J. Arid Environ.*
Journal of Arid Environments
- J. Ariz. Acad. Sci.*
Journal of the Arizona Academy of Science
- J. Asiat. Soc. Bengal Part II Nat. Sci.*
Journal of the Asiatic Society of Bengal.
Part II. Natural Science
- J. Asiat. Soc. Bengal Part II Phys. Sci.*
Journal of the Asiatic Society of Bengal.
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- J. Aust. Entomol. Soc.*
Journal of the Australian Entomological Society
- J. Beijing For. Univ. (Engl. Ed.)*
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(English Edition)
- J. Biogeogr.*
Journal of Biogeography
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Journal of Botany
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Journal of the College of Agriculture,
Tohoku Imperial University
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Journal of Comparative Physiology. A.
Sensory, Neural and Behavioral Physiology
- J. Dep. Sci. Calcutta Univ.*
Journal of the Department of Science of
Calcutta University
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- J. Elisha Mitchell Sci. Soc.*
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- J. Entomol.*
Journal of Entomology
- J. Entomol. Res. (New Delhi)*
Journal of Entomological Research (New Delhi)
- J. Entomol. Sci.*
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- J. Entomol. Ser. A*
Journal of Entomology. Series A
- J. Entomol. Ser. B*
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- J. Entomol. Soc. Aust. (N. S. W.)*
Journal of the Entomological Society of Australia (New South Wales)
- J. Entomol. Soc. B. C.*
Journal of the Entomological Society of British Columbia
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Kyushu University
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Hokkaido University. Series VI. Zoology
- J. Ga. Entomol. Soc.*
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- J. Hered.*
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Journal of Hymenoptera Research
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- J. Insect Physiol.*
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Journal of the Institute of Science Education (Chongju Teachers' College)
- J. Kansas Entomol. Soc.*
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- J. Linn. Soc. Lond. Zool.*
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Journal de Microscopie (Paris)
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- Jahrb. Hambg. Wiss. Anst.*
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 Kongelige Danske Videnskabernes
 Selskabs Skrifter
K. Sven. Vetensk.-Akad. Handl.
 Kongliga Svenska Vetenskaps-
 Akademiens Handlingar
Kagaku (Tokyo)
 Kagaku (Tokyo)
Kagaku Noggo
 Kagaku no Noggo
Kans. Sch. Nat.
 The Kansas School Naturalist
Kansai Konchu Zasshi
 Kansai Konchu Zasshi
Kat. Fauny Pol.
 Katalog Fauny Polski
Khumbu Himal Ergeb.
 Forschungsunternehmen. Nepal Himal.
 Khumbu Himal. Ergebnisse des
 Forschungsunternehmens Nepal Himalaya
Koedoe
 Koedoe
Konowia
 Konowia
Kontyû
 Kontyû
Kontyû Kagaku
 Kontyû Kagaku
Kontyû Kenkyu
 Kontyû Kenkyu
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Ksiegi Pamiatkowej (Lecia Gimn. IV Jana
Dlugosza Lwowie)
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 im. Jana Dlugosza we Lwowie)
Kyodo Shizen
 Kyodo no Shizen
Kyongsang Taehak Nonmunjip (J.
Kyongsang Natl. Univ.)
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 Kyongsang National University)
Lammergeyer
 Lammergeyer
Leafl. Univ. Colo. Mus.
 Leaflet. University of Colorado Museum
Lesn. Khoz.
 Lesnoe Khoziaistvo
Levende Nat.
 Levende Natuur
Life Sci.
 Life Sciences
Lloydia
 Lloydia
MNHN (Mus. Nac. Hist. Nat.) Not. Mens.
 MNHN (Museo Nacional de Historia
 Natural) Noticiario Mensual
Madoqua
 Madoqua
Madras J. Lit. Sci.
 Madras Journal of Literature and Science
Mag. Insektenkd. (Illiger)
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Mag. Nat. Hist.
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Magyarorsz. Allatvilága
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Mainz. Naturwiss. Arch.
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- Malpighia*
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- Märk. Tierwelt*
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- Mater. Faune Gruz.*
Materialy k Faune Gruzii
- Mater. Kollok. Sekts. Obshchestv. Nasek.*
Vses. Entomol. Obshch.
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Obshchestvennykh Nasekomykh
Vsesoyuznogo Entomologicheskogo
Obshchestva
- Mauritius Inst. Bull.*
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- Md. Nat.*
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- Medd. Soc. Fauna Flora Fenn.*
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Flora Fennica
- Melanderia*
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- Mém. Acad. Sci. Inst. Fr.*
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l'Institut de France
- Mem. Am. Entomol. Inst.*
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Agricultural Experiment Station
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Canada
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- Mem. Estud. Mus. Zool. Univ. Coimbra Sér.*
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Memórias e Estudos do Museu Zoológico
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Zoologia Sistemática
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Mémoires de l'Institut d'Egypte
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Naturale di Verona
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Sez. Sci. Vita (A Biol.)
Memorie del Museo Civico di Storia
Naturale di Verona (II Serie). Sezione
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Victoria
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(Tokyo)
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Memoirs and Proceedings of the
Manchester Literary and Philosophical
Society
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Merkblätter zur Waldhygiene
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Miscellanea Faunistica Helvetiae
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Miscelánea. Instituto Miguel Lillo
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- Mission Rohan-Chabot*
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- Mission Sci. Omo*
Mission Scientifique de l'Omo
- Missione Biol. Paese Borana*
Missione Biologica nel Paese dei Borana
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Mitteilungen der Arbeitsgemeinschaft für
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Breisgau
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Mitteilungen der Deutschen
Entomologischen Gesellschaft
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Mitteilungen aus dem Naturhistorischen
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Solomon Islands
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Natuurhistorisch Maandblad
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- Nauchn. Dokl. Vyssh. Shk. Biol. Nauki*
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- Not. Entomol.*
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Notas del Museo de La Plata (Zoología)
- Notes Leyden Mus.*
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- Notes R. Bot. Gard. Edinb.*
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- Nova Acta Leopold.*
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- Nova Caled. A Zool.*
Nova Caledonia. A. Zoologie
- Nova Guin.*
Nova Guinea
- Nucleus (Calcutta)*
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- Nunquam Otiosus (Dres.)*
Nunquam Otiosus (Dresden)
- Nuova Antol. Sci. Lett. Arti*
Nuova Antologia di Scienze, Lettere ed
Arti
- Nymphaea*
Nymphaea
- Nyt Mag. Naturvidensk.*
Nyt Magazin for Naturvidenskaberne
- Nytt Mag. Naturvidensk.*
Nytt Magasin for Naturvidenskapene
- Occas. Pap. Bernice P. Bishop Mus.*
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Bishop Museum
- Occas. Pap. Biol. Soc. Nev.*
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Nevada

- Occas. Pap. Boston Soc. Nat. Hist.*
Occasional Papers of the Boston Society of Natural History
- Occas. Pap. Calif. Acad. Sci.*
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- Occas. Pap. Natl. Mus. South. Rhod.*
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- Oecologia (Berl.)*
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- Oesterr. Rev.*
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- Öfvers. Fin. Vetensk.-Soc. Förh.*
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- Öfvers. K. Vetensk.-Akad. Förh. Stockh.*
Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar. Stockholm
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- Oikos*
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Opinions and Declarations rendered by the International Commission on Zoological Nomenclature
- Opredeliteli Faune SSSR*
Opredeliteli po Faune SSSR
- Opusc. Entomol.*
Opuscula Entomologica
- Opusc. Inst. Sci. Indoch.*
Opusculs de l'Institut Scientifique de l'Indochine
- Opusc. Zool. Münch.*
Opuscula Zoologica. München
- Orient. Insects*
Oriental Insects
- Orsis (Org. Sist.)*
Orsis (Organismes i Sistemes)
- Osaka Shokubutsu Boeki*
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- Österr. Zool. Z.*
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- Overseas Dev. Nat. Resour. Inst. Bull.*
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- P. N. G. J. Agric. For. Fish.*
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- Pac. Insects Monogr.*
Pacific Insects Monograph
- Pac. Sci.*
Pacific Science
- Palaeogeogr. Palaeoclimatol. Palaeoecol.*
Palaeogeography, Palaeoclimatology, Palaeoecology
- Paleobiol.*
Paleobiology
- Paleontol. J.*
Paleontological Journal
- Paleontol. Zh.*
Paleontologicheskii Zhurnal
- Pan-Pac. Entomol.*
Pan-Pacific Entomologist
- Pap. Avulsos Zool. (São Paulo)*
Papeis Avulsos de Zoologia (São Paulo)
- Pap. Peabody Mus. Archaeol. Ethnol. Harv. Univ.*
Papers of the Peabody Museum of Archaeology and Ethnology, Harvard University
- Pedobiologia*
Pedobiologia
- Peking Nat. Hist. Bull.*
Peking Natural History Bulletin
- Pest Artic. News Summ.*
Pest Articles & News Summaries
- Pfälz. Heim.*
Pfälzer Heimat
- Pflanzenschutz Ber.*
Pflanzenschutz Berichte
- Philipp. J. Sci.*
Philippine Journal of Science
- Philipp. J. Sci. Sect. D. Gen. Biol. Ethnol. Anthropol.*
Philippine Journal of Science. Section D. General Biology, Ethnology and Anthropology
- Philos. Trans. R. Soc. Lond.*
Philosophical Transactions of the Royal Society of London

- Philos. Trans. R. Soc. Lond. B Biol. Sci.*
Philosophical Transactions of the Royal
Society of London. B. Biological Sciences
- Physiol. Entomol.*
Physiological Entomology
- Physiol. Zool.*
Physiological Zoology
- Physis (B. Aires)*
Physis (Buenos Aires)
- Phytophylactica*
Phytophylactica
- Pilot Regist. Zool.*
Pilot Register of Zoology
- Poeyana Inst. Ecol. Sist. Acad. Cienc. Cuba*
Poeyana. Instituto de Ecología y
Sistemática, Academia de Ciencias de
Cuba
- Poeyana Inst. Zool. Acad. Cienc. Cuba*
Poeyana. Instituto de Zoología, Academia
de Ciencias de Cuba
- Pol. Ecol. Stud.*
Polish Ecological Studies
- Pol. Pismo Entomol.*
Polskie Pismo Entomologiczne
- Pop. Sci. Mon.*
Popular Science Monthly
- Pr. Kom. Nauk Roln. Kom. Nauk Lesn.*
Prace Komisji Nauk Rolniczych i Komisji
Nauk Lesnych
- Pr. Tow. Przyj. Nauk Wilnie Wydz. Nauk
Mat. Przyr.*
Prace Towarzystwa Przyjaciół Nauk w
Wilnie. Wydział Nauk Matematycznych i
Przyrodniczych
- Prairie Nat.*
Prairie Naturalist
- Prakt. Schädlingbekämpfer*
Der Praktische Schädlingbekämpfer
- Príroda (Brno)*
Príroda (Brno)
- Priroda (Mosc.)*
Priroda (Moscow)
- Probl. Attuali Sci. Cult.*
Problemi Attuali di Scienza e di Cultura
- Proc. Acad. Nat. Sci. Phila.*
Proceedings of the Academy of Natural
Sciences of Philadelphia
- Proc. Acadian Entomol. Soc.*
Proceedings of the Acadian Entomological
Society
- Proc. Am. Acad. Arts Sci.*
Proceedings of the American Academy of
Arts and Sciences
- Proc. Am. Philos. Soc.*
Proceedings of the American Philosophical
Society
- Proc. Biol. Soc. Wash.*
Proceedings of the Biological Society of
Washington
- Proc. Calif. Acad. Sci.*
Proceedings of the California Academy of
Sciences
- Proc. Ecol. Soc. Aust.*
Proceedings of the Ecological Society of
Australia
- Proc. Entomol. Soc. B. C.*
Proceedings of the Entomological Society
of British Columbia
- Proc. Entomol. Soc. Lond.*
Proceedings of the Entomological Society
of London
- Proc. Entomol. Soc. Manit.*
Proceedings of the Entomological Society
of Manitoba
- Proc. Entomol. Soc. Phila.*
Proceedings of the Entomological Society
of Philadelphia
- Proc. Entomol. Soc. Wash.*
Proceedings of the Entomological Society
of Washington
- Proc. Essex Inst. (Commun.)*
Proceedings of the Essex Institute
(Communications)
- Proc. Hawaii. Entomol. Soc.*
Proceedings of the Hawaiian
Entomological Society
- Proc. Indian Sci. Congr.*
Proceedings of the Indian Science
Congress
- Proc. Indiana Acad. Sci.*
Proceedings of the Indiana Academy of
Science
- Proc. Iowa Acad. Sci.*
Proceedings of the Iowa Academy of
Science
- Proc. Isle Wight Nat. Hist. Archaeol. Soc.*
Proceedings of the Isle of Wight Natural
History and Archaeological Society
- Proc. Jpn. Soc. Syst. Zool.*
Proceedings of the Japanese Society of
Systematic Zoology

- Proc. Linn. Soc. N. S. W.*
Proceedings of the Linnean Society of
New South Wales
- Proc. Malacol. Soc.*
Proceedings of the Malacological Society
- Proc. Manch. Lit. Philos. Soc.*
Proceedings of the Manchester Literary
and Philosophical Society
- Proc. N. D. Acad. Sci.*
Proceedings of the North Dakota Academy
of Science
- Proc. N. Engl. Zool. Club*
Proceedings of the New England
Zoological Club
- Proc. Natl. Acad. Sci. U. S. A.*
Proceedings of the National Academy of
Sciences of the United States of America
- Proc. North Cent. Branch Entomol. Soc. Am.*
Proceedings of the North Central Branch.
Entomological Society of America
- Proc. R. Entomol. Soc. Lond. Ser. A*
Proceedings of the Royal Entomological
Society of London. Series A
- Proc. R. Entomol. Soc. Lond. Ser. B*
Proceedings of the Royal Entomological
Society of London. Series B
- Proc. R. Ir. Acad. Sect. B*
Proceedings of the Royal Irish Academy.
Section B
- Proc. R. Soc. Qld.*
Proceedings of the Royal Society of
Queensland
- Proc. R. Soc. Vic.*
Proceedings of the Royal Society of
Victoria
- Proc. Sect. Exp. Appl. Entomol. Neth.
Entomol. Soc.*
Proceedings of the Section Experimental
and Applied Entomology of the
Netherlands Entomological Society
- Proc. Sect. Sci. K. Akad. Wet. Amst.*
Proceedings of the Section of Sciences.
Koninklijke Akademie van
Wetenschappen te Amsterdam
- Proc. Somerset. Archaeol. Nat. Hist. Soc.*
Proceedings of the Somersetshire
Archaeological and Natural History
Society
- Proc. Trans. Rhod. Sci. Assoc.*
Proceedings and Transactions of the
Rhodesia Scientific Association
- Proc. Trans. South Lond. Entomol. Nat. Hist.
Soc.*
Proceedings and Transactions of the South
London Entomological and Natural
History Society
- Proc. U. S. Natl. Mus.*
Proceedings of the United States National
Museum
- Proc. Utah Acad. Sci. Arts Lett.*
Proceedings of the Utah Academy of
Sciences, Arts and Letters
- Proc. Wash. Acad. Sci.*
Proceedings of the Washington Academy
of Sciences
- Proc. Zool. Soc. Lond.*
Proceedings of the Zoological Society of
London
- Proc. Zool. Soc. Lond. Ser. A*
Proceedings of the Zoological Society of
London. Series A.
- Programm Städt. Oberrealsch. Pesth*
Programm der Städtischen Oberrealschule
in Pesth
- Protok. Obshch. Estestvoispyt. Imp. Kazan.
Univ.*
Protokoly Obshchestva Estestvoispytatelei
pri Imperatorskom Kazanskom
Universitete
- Przeegl. Zool.*
Przegląd Zoologiczny
- Psyche (Camb.)*
Psyche (Cambridge)
- Pubbl. Ist. Entomol. Agrar. Univ. Pavia*
Pubblicazioni dell'Istituto di Entomologia
Agraria dell'Università di Pavia
- Pubbl. Stn. Zool. Napoli*
Pubblicazioni della Stazione Zoologica di
Napoli
- Publ. Avulsas Mus. Nac. Rio J.*
Publicações Avulsas. Museu Nacional. Rio
de Janeiro
- Publ. Cult. Cia. Diam. Angola*
Publicações Culturais da Companhia de
Diamantes de Angola
- Publ. Dep. Zool. (Barc.)*
Publicaciones del Departamento de
Zoología (Barcelona)
- Publ. Inst. Estud. Almer. Bol. (Cienc.)*
Publicaciones del Instituto de Estudios
Almerienses. Boletín (Ciencias)

- Publ. Natuurhist. Genoot. Limburg*
Publicatiës van het Natuurhistorisch
Genootschap in Limburg
- Publ. Univ. Liban. Sect. Sci. Nat.*
Publications de l'Université Libanaise.
Section des Sciences Naturelles
- Purdue Univ. Agric. Exp. Stn. Res. Bull.*
Purdue University Agricultural Experiment
Station. Research Bulletin
- Q. J. Geol. Soc. Lond.*
Quarterly Journal of the Geological
Society of London
- Q. J. Microsc. Sci.*
Quarterly Journal of Microscopical
Science
- Q. Rev. Biol.*
Quarterly Review of Biology
- Qld. Agric. J.*
Queensland Agricultural Journal
- Qld. J. Agric. Sci.*
Queensland Journal of Agricultural
Science
- Quaest. Entomol.*
Quaestiones Entomologicae
- Quat. Res. (N. Y.)*
Quaternary Research (New York)
- Quid (Teresina)*
Quid (Teresina)
- Rapp. P.-V. Réun. Comm. Int. Explor. Sci.
Mer Méditerran. Monaco*
Rapports et Procès-Verbaux des
Réunions de la Commission Internationale
pour l'Exploration Scientifique de la Mer
Méditerranée. Monaco
- Rass. Soc. Alp. Giulie*
Rassegna della Società Alpina delle Giulie
- Rec. Auckl. Inst. Mus.*
Records of the Auckland Institute and
Museum
- Rec. Canterbury Mus.*
Records of the Canterbury Museum
- Rec. Indian Mus.*
Records of the Indian Museum
- Rec. Zool. Surv. India*
Records of the Zoological Survey of India
- Rech. Agron.*
Recherches Agronomiques
- Recl. Zool. Suisse*
Recueil Zoologique Suisse
- Reclam. Reveg. Res.*
Reclamation and Revegetation Research
- Redia*
Redia
- Regist. Trimest. Colecc. Mem. Hist. Lit.
Cienc. Artes*
Registro Trimestre; o Colección de
Memorias de Historia, Literatura, Ciencias
y Artes
- Reichenbachia*
Reichenbachia
- Rend. Semin. Fac. Sci. Univ. Cagliari*
Rendiconti del Seminario della Facoltà di
Scienze dell'Università di Cagliari
- Rend. Sess. R. Accad. Sci. Ist. Bologna*
Rendiconti delle Sessioni della Reale
Accademia delle Scienze dell'Istituto di
Bologna
- Rend. Sess. R. Accad. Sci. Ist. Bologna Cl.
Sci. Fis.*
Rendiconti delle Sessioni della Reale
Accademia delle Scienze dell'Istituto di
Bologna. Classe di Scienze Fisiche
- Rend. Unione Zool. Ital.*
Rendiconti. Unione Zoologica Italiana
- Rep. Entomol. U. S. Dep. Agric.*
Report of the Entomologist. United States
Department of Agriculture
- Rep. Fac. Sci. Kagoshima Univ. (Earth Sci.
Biol.)*
Reports of the Faculty of Science,
Kagoshima University (Earth Sciences and
Biology)
- Rep. First Sci. Exped. Manchoukuo*
Report of the First Scientific Expedition to
Manchoukuo
- Rep. Invest. Inst. Ecol. Sist. (Acad. Cienc.
Cuba)*
Reporte de Investigación del Instituto de
Ecología y Sistemática (Academia de
Ciencias de Cuba)
- Rep. Prog. Geol. Surv. Can.*
Report on Progress. Geological Survey of
Canada
- Rep. Ser. Univ. Arkansas Agric. Exp. Stn.*
Report Series. University of Arkansas
Agricultural Experiment Station
- Rep. Trans. Devon. Assoc. Adv. Sci. Lit. Art*
Report and Transactions of the Devonshire
Association for the Advancement of
Science, Literature and Art
- Res. Bull. Coll. Exp. For. Hokkaido Univ.*
Research Bulletin of the College
Experiment Forests, Hokkaido University

- Res. J. Univ. Wyo. Agric. Exp. Stn.*
 Research Journal. University of Wyoming
 Agricultural Experiment Station
Restor. Ecol.
 Restoration Ecology
Rev. Agric. (Piracicaba)
 Revista de Agricultura (Piracicaba)
Rev. Agric. Cochabamba
 Revista de Agricultura. Cochabamba
Rev. Asoc. Ing. Agrón. Montev.
 Revista de la Asociación de Ingenieros
 Agrónomos. Montevideo
Rev. Biol. Acad. Répub. Pop. Roum.
 Revue Biologie. Académie de la
 République Populaire Roumaine
Rev. Biol. Trop.
 Revista de Biología Tropical
Rev. Biol. Urug.
 Revista de Biología del Uruguay
Rev. Bras. Biol.
 Revista Brasileira de Biologia
Rev. Bras. Entomol.
 Revista Brasileira de Entomologia
Rev. Ceres
 Revista Ceres
Rev. Chil. Entomol.
 Revista Chilena de Entomología
Rev. Chil. Hist. Nat.
 Revista Chilena de Historia Natural
Rev. Colomb. Entomol.
 Revista Colombiana de Entomología
Rev. Ecuat. Hig. Med. Trop.
 Revista Ecuatoriana de Higiene y
 Medicina Tropical
Rev. Écol. Biol. Sol
 Revue d'Écologie et de Biologie du Sol
Rev. Écol. Terre Vie
 Revue d'Écologie. La Terre et la Vie
Rev. Entomol. (Caen)
 Revue d'Entomologie (Caen)
Rev. Entomol. (Rio J.)
 Revista de Entomologia (Rio de Janeiro)
Rev. Entomol. Qué.
 Revue d'Entomologie du Québec
Rev. Fac. Agron. Univ. Nac. La Pampa
 Revista de la Facultad de Agronomía.
 Universidad Nacional de La Pampa
Rev. Fac. Humanid. Cienc. Ser. Cienc. Biol.
 Revista de la Facultad de Humanidades y
 Ciencias. Serie Ciencias Biológicas
Rev. Fac. Sci. Tunis
 Revue de la Faculté des Sciences de Tunis
Rev. Fr. Entomol.
 Revue Française d'Entomologie
Rev. Fr. Entomol. (Nouv. Sér.)
 Revue Française d'Entomologie (Nouvelle
 Série)
Rev. Gén. Sci. Pures Appl.
 Revue Générale des Sciences Pures et
 Appliquées
Rev. Ibér. Parasitol.
 Revista Ibérica de Parasitología
Rev. Jard. Bot. Mus. Hist. Nat. Parag.
 Revista del Jardín Botánico y Museo de
 Historia Natural del Paraguay
Rev. Mag. Zool. Pure Appl.
 Revue et Magasin de Zoologie Pure et
 Appliquée
Rev. Mus. La Plata
 Revista del Museo de La Plata
Rev. Mus. Paul.
 Revista do Museu Paulista
Rev. Mus. Pop. Paraná
 Revista del Museo Popular de Paraná
Rev. Nicar. Entomol.
 Revista Nicaraguense de Entomología
Rev. Path. Vég. Entomol. Agric. Fr.
 Revue de Pathologie Végétale et
 d'Entomologie Agricole de France
Rev. Peru. Entomol.
 Revista Peruana de Entomología
Rev. Sci. (Paris)
 Revue Scientifique (Paris)
Rev. Sci. Nat. Auvergne
 Revue des Sciences Naturelles d'Auvergne
Rev. Soc. Entomol. Argent.
 Revista de la Sociedad Entomológica
 Argentina
Rev. Soc. Urug. Entomol.
 Revista de la Sociedad Uruguaya de
 Entomología
Rev. Suisse Zool.
 Revue Suisse de Zoologie
Rev. Zool. Afr. (Bruss.)
 Revue Zoologique Africaine (Brussels)
Rev. Zool. Afr. (Tervuren)
 Revue de Zoologie Africaine (Tervuren)
Rev. Zool. Bot. Afr.
 Revue de Zoologie et de Botanique
 Africaines
Rigakukai
 Rigakukai

Rikusuigaku Zasshi (Jpn. J. Limnol.)

Rikusuigaku Zasshi (Japanese Journal of Limnology)

Riv. Biol. (Rome)

Rivista di Biologia (Rome)

Riv. Biol. Colon.

Rivista di Biologia Coloniale

Riv. Biol. Gen.

Rivista de Biologia Generale

Riv. Sci. Biol.

Rivista di Scienze Biologiche

Riviera Sci.

Riviera Scientifique

Roc. Cesk. Spol. Entomol.

Rocenka Československé Společnosti Entomologické

Rocz. Nauk Lesn.

Roczniki Nauk Lesnych

Rovartani Lapok

Rovartani Lapok

Rozpr. Wiad. Muz. Dziedusz. Lwów

Rozprawy i Wiadomości z Muzeum im. Dzieduszyckich Lwów

Rus. Entomol. Obozr.

Russkoe Entomologicheskoe Obozrenie

Rus. Zool. Zh.

Russkii Zoologicheskii Zhurnal

S. Afr. Dep. Agric. Tech. Serv. Tech. Commun.

South Africa Department of Agricultural Technical Services. Technical Communications

S. Afr. J. Agric. Sci.

South African Journal of Agricultural Science

S. Afr. J. Sci.

South African Journal of Science

S. Afr. J. Zool.

South African Journal of Zoology

S. Aust. Nat.

The South Australian Naturalist

Saishû Shiiku

Saishû to Shiiku

Sb. Entomol. Oddel. Nár. Mus. Praze

Sborník Entomologického Oddělení Národního Muzea v Praze

Sb. Klubu Přírodoved. Brne

Sborník Klubu Přírodovědeckého v Brně

Sb. Přírodoved. Klubu Trebici

Sborník Přírodovědeckého Klubu v Trebíci

Sb. Slov. Nár. Múz. Prír. Vedy

Sborník Slovenského Národného múzea.

Prírodné Vedy

Sb. Tr. Zool. Muz. (Kiev)

Sbornik Trudov Zoologicheskogo Muzeia (Kiev)

Schr. Naturforsch. Ges. Danzig

Schriften der Naturforschenden

Gesellschaft in Danzig

Schr. Phys.-Ökon. Ges. Königsb.

Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg

Schriftenr. Bayer. Landesamt Umweltschutz

Schriftenreihe Bayerisches Landesamt für Umweltschutz

Schweiz. Entomol. Anz.

Schweizer Entomologischer Anzeiger

Schweiz. Z. Forstwes.

Schweizerische Zeitschrift für Forstwesen

Sci. Am.

Scientific American

Sci. Cult.

Science and Culture

Sci. Gerundensis

Scientia Gerundensis

Sci. Mon.

The Scientific Monthly

Sci. Rep. Fac. Educ. Gifu Univ. (Nat. Sci.)

Science Report of the Faculty of Education, Gifu University (Natural Science)

Sci. Rep. Tokyo Kyoiku Daigaku Sect. B

Science Reports of the Tokyo Kyoiku Daigaku. Section B

Sci. Silvae Sin.

Scientia Silvae Sinicae

Sci. Treatise Syst. Evol. Zool.

Scientific Treatise on Systematic and Evolutionary Zoology

Science (N. Y.)

Science (New York)

Science (Wash. D. C.)

Science (Washington, D. C.)

Scott. Nat.

Scottish Naturalist

Search (Sydney)

Search (Sydney)

Search Agric. (Ithaca N. Y.)

Search. Agriculture (Ithaca, New York)

Seikô

Seikô

- Senckenb. Biol.*
Senckenbergiana Biologica
- Senckenb. Lethaea*
Senckenbergiana Lethaea
- Senckenbergiana*
Senckenbergiana
- Seoul Natl. Univ. Coll. Agric. Bull.*
Seoul National University College of
Agriculture Bulletin
- Ser. Biol. Acad. Cienc. Cuba*
Serie Biológica. Academia de Ciencias de
Cuba
- Ser. Entomol. (Dordr.)*
Series Entomologica (Dordrecht)
- Sesoko Mar. Sci. Lab. Tech. Rep.*
Sesoko Marine Science Laboratory
Technical Report
- Sess. Entomol. ICHN-SCL*
Sessió d'Entomologia ICHN-SCL
- Severoces. Prír. Príl.*
Severoceskou Přírodou. Příloha
- Shire Nat. Hist. Ser.*
Shire Natural History Series
- Shiseki Meisho Tennen Kinenbutsu*
Shiseki Meisho Tennen Kinenbutsu
- Sinozoologia*
Sinozoologia
- Sitzungsber. Abh. Naturwiss. Ges. "Isis"*
Dres.
Sitzungsberichte und Abhandlungen der
Naturwissenschaftlichen Gesellschaft
"Isis" in Dresden
- Sitzungsber. Akad. Wiss. Wien Math.-
Naturwiss. Kl. Abt. I*
Sitzungsberichte der Akademie der
Wissenschaften in Wien. Mathematisch-
Naturwissenschaftliche Klasse. Abteilung I
- Sitzungsber. Ges. Morphol. Physiol. Münch.*
Sitzungsberichte der Gesellschaft für
Morphologie und Physiologie. München
- Sitzungsber. Ges. Naturforsch. Freunde Berl.*
Sitzungsberichte der Gesellschaft
Naturforschender Freunde zu Berlin
- Sitzungsber. Kais. Akad. Wiss. Wien Math.-
Naturwiss. Cl. [Kl.] Abt. I*
Sitzungsberichte der Kaiserlichen
Akademie der Wissenschaften in Wien.
Mathematisch-Naturwissenschaftliche
Classe [Klasse]. Abteilung I
- Sitzungsber. Math.-Phys. Kl. K. Bayer. Akad.
Wiss. Münch.*
Sitzungsberichte der Mathematischen-
Physikalischen Klasse der Königlich
Bayerischen Akademie der Wissenschaften
zu München
- Sitzungsber. Naturforsch. Ges. Leipz.*
Sitzungsberichte der Naturforschenden
Gesellschaft zu Leipzig
- Sitzungsber. Österr. Akad. Wiss. Math.-
Naturwiss. Kl. Abt. I*
Sitzungsberichte der Österreichischen
Akademie der Wissenschaften.
Mathematisch-Naturwissenschaftliche
Klasse. Abteilung I
- Smithson. Contrib. Bot.*
Smithsonian Contributions to Botany
- Smithson. Misc. Collect.*
Smithsonian Miscellaneous Collections
- Soc. Entomol. Stuttg.*
Societas Entomologica. Stuttgart
- Soc. Veneziana Sci. Nat. Lav.*
Società Veneziana di Scienze Naturali.
Lavori
- Sociobiology*
Sociobiology
- Soil Biol. Biochem.*
Soil Biology and Biochemistry
- Soobshch. Akad. Nauk Gruz. SSR*
Soobshcheniya Akademii Nauk Gruzinskoi
SSR
- Southwest. Entomol.*
Southwestern Entomologist
- Southwest. Nat.*
Southwestern Naturalist
- Sov. Geol.*
Sovetskaya Geologiya
- Sov. J. Ecol.*
Soviet Journal of Ecology
- Spec. Bull. Lepid. Soc. Jpn.*
Special Bulletin of [the]
Lepidopterological Society of Japan
- Spec. Publ. Mus. Tex. Tech Univ.*
Special Publications, the Museum. Texas
Tech University
- Speleon*
Speleon
- Sphecos*
Sphecos
- Spixiana*
Spixiana

- Spraw. Kom. Fizjogr. Mater. Fizjogr. Kraju*
Sprawozdania Komisji Fizjograficznej
oraz Materjały do Fizjografji Kraju
- Stain Technol.*
Stain Technology
- State Biol. Surv. Kans. Tech. Publ.*
State Biological Survey of Kansas.
Technical Publications
- Stett. Entomol. Ztg.*
Stettiner Entomologische Zeitung
- Stud. Cercet. Biol. Ser. Biol. Anim.*
Studii si Cercetari de Biologie. Seria
Biologie Animala
- Stud. Cercet. Biol. Ser. Zool.*
Studii si Cercetari de Biologie. Seria
Zoologie
- Stud. Comun. Muz. Stiint. Nat. Bacau*
Studii si Comunicari. Muzeul de Stiintele
Naturi. Bacau
- Stud. Entomol.*
Studia Entomologica
- Stud. Nat. Hist. Iowa Univ.*
Studies in Natural History. Iowa
University
- Stud. Neotrop. Fauna Environ.*
Studies on the Neotropical Fauna and
Environment
- Stud. Sassar. Sez. III*
Studi Sassaressi. Sezione III
- Stuttg. Beitr. Naturkd. Ser. B (Geol.
Paläontol.)*
Stuttgarter Beiträge zur Naturkunde. Serie
B (Geologie und Paläontologie)
- Stylops*
Stylops
- Suppl. Entomol.*
Supplementa Entomologica
- Sylwan*
Sylwan
- Symp. Genet. Biol. Ital.*
Symposia Genetica et Biologica Italica
- Syst. Entomol.*
Systematic Entomology
- Syst. Zool.*
Systematic Zoology
- Tacaya*
Tacaya
- Természetr. Füz.*
Természetrajzi Füzetek
- Terre Vie*
La Terre et la Vie
- Tetrahedron*
Tetrahedron
- Tetrahedron Lett.*
Tetrahedron Letters
- Tex. Agric. Exp. Stn. Bull.*
Texas Agricultural Experiment Station.
Bulletin
- Tex. J. Agric. Nat. Resour.*
Texas Journal of Agriculture and Natural
Resources
- Tex. J. Sci.*
Texas Journal of Science
- Theor. Popul. Biol.*
Theoretical Population Biology
- Thesis Abstr. Haryana Agric. Univ.*
Thesis Abstracts. Haryana Agricultural
University
- Tijdschr. Entomol.*
Tijdschrift voor Entomologie
- Tijdschr. Plantenziekten*
Tijdschrift over Plantenziekten
- Tiscia (Szeged)*
Tiscia (Szeged)
- Tissue Cell*
Tissue & Cell
- Toxicon*
Toxicon
- Tr. Biol. Inst. (Novosibirsk)*
Trudy Biologicheskogo Instituta
(Novosibirsk)
- Tr. Biol. Nauchn.-Issled. Inst. Tomsk. Gos.
Univ.*
Trudy Biologicheskogo Nauchno-
Issledovatel'skogo Instituta Tomskogo
Gosudarstvennogo Universiteta
- Tr. Inst. Morfol. Zhivotn. Akad. Nauk SSSR*
Trudy Instituta Morfologii Zhivotnykh.
Akademiya Nauk SSSR
- Tr. Inst. Zool. Akad. Nauk Kaz. SSR*
Trudy Instituta Zoologii. Akademiya Nauk
Kazakhskoi SSR
- Tr. Inst. Zool. Biol. Vseukr. [or Ukr.] Akad.
Nauk Ser. I Pr. Syst. Faun.*
Trudy Instytutu Zoolohii ta Biolohii
Vseukrains'koi [or Ukrain's'koi] Akademii
Nauk. Seriya 1. Pratsi z Systematyky ta
Faunistyky
- Tr. Kosinsk. Biol. Stn.*
Trudy Kosinskoi Biologicheskoi Stantsii
- Tr. Obshch. Estestvoispyt. Imp. Kazan. Univ.*
Trudy Obshchestva Estestvoispytatelei pri
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